

Request for Proposal (RFP) for Rate Contract for Supply, Operation and Maintenance of Tinkering Labs

[Reference No. F4.9(1198)/RISL/Tech/Misc/2025/3880 Dated: 29-09-2025]

Mode of Bid Submission	Online through e-Procurement/ e-Tendering system at http://eproc.rajasthan.gov.in
Procuring Authority	Managing Director, RISL, First Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Date of Pre-Bid Meeting	As per NIB
Last Date & Time of Submission of Bid	As per NIB
Date & Time of Opening of Technical Bid	As per NIB

Bidding Document Fee: INR 2,000 (Rupees Two Thousand only) in form of Demand Draft in favour of "MD, RISL" payable at "Jaipur"

e-Procurement Fee: INR 2,000 (Rupees Two Thousand only) in form of Demand Draft in favour of "MD, RISL" payable at "Jaipur"

Name of the Bidding Company/ Firm:			
Contact Person (Authorized Bid Signatory):			
Correspondence Address:			
Mobile No.		Telephone & Fax Nos.:	
Website & E-Mail:			

RajCOMP Info Services Limited (RISL)

First Floor, Yojana Bhawan, B-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan)

Phone: 0141- 5103902 Fax: 0141-2228701

Web: <http://risl.rajasthan.gov.in>

ABBREVIATIONS & DEFINITIONS

Act	The Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012) and Rules thereto
Authorized Signatory	The bidder's representative/ officer vested (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 (PoA) from the competent authority of the respective Bidding firm.
BG	Bank Guarantee
Bid/ eBid	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
Bid Security	A security provided to the procuring entity by a bidder for securing the fulfilment of any obligation in terms of the provisions of the bidding documents.
Bidder	Any person/ firm/ agency/ company/ contractor/ supplier/OEM/ vendor participating in the procurement/ bidding process with the procurement entity
Bidding Document	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the Invitation to Bid
BoM	Bill of Material
CMC	Contract Monitoring Committee
Competent Authority	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. Chairman & Managing Director, RISL in this bidding document.
Contract	A contract entered into between the procuring entity and a selected bidder concerning the subject matter of procurement
Project Period / Validity of Contract	The Rate Contract Period shall be valid for 2 years and can further be extended for 12 more months on same terms and conditions as per mutual understanding
COTS	Commercial Off the Shelf Software
Day	A calendar day as per GoR/ Gol.
DeitY, Gol	Department of Electronics and Information Technology, Government of India
DoIT&C	Department of Information Technology and Communications, Government of Rajasthan.
ETDC	Electronic Testing & Development Center
FOR/ FOB	Free on Board or Freight on Board
Gol/ GoR	Govt. of India/ Govt. of Rajasthan
Goods	All articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other category of goods, whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves
ICT	Information and Communication Technology.
IFB	Invitation for Bids (A document published by the procuring entity inviting Bids relating to the subject matter of procurement and any amendment thereto and includes notice inviting Bid and request for proposal)
INR	Indian Rupee
ISI	Indian Standards Institution
ISO	International Organisation for Standardisation
IT	Information Technology

ITB	Instruction to Bidders
LD	Liquidated Damages
LoI	Letter of Intent
NCB	A bidding process in which qualified bidders only from within India are allowed to participate
NIB	Notice Inviting Bid
Notification	A notification published in the Official Gazette
OEM	Original Equipment Manufacturer
PAN	Permanent Account Number
PBG	Performance Bank Guarantee
PC	Procurement/ Purchase Committee
Performance Security Deposit (PSD)	Performance Security Deposit shall be deposited by the selected bidder after receiving the work order
PQ	Pre-Qualification
Procurement Process	The process of procurement extending from the issue of invitation to Bid till the award of the procurement contract or cancellation of the procurement process, as the case may be
Procurement/ Public Procurement	The acquisition by purchase, lease, license or otherwise of works, goods or services, including award of Public Private Partnership projects, by a procuring entity whether directly or through an agency with which a contract for procurement services is entered into, but does not include any acquisition without consideration, and "procure" or "procured" shall be construed accordingly
Project Site	Wherever applicable, means the designated place or places.
PSD	Performance Security Deposit
Purchaser/ Purchaser/ Procuring Entity	Person or entity that is a recipient of a good or service provided by a seller (bidder) under a purchase order or contract of sale. Also called buyer. RISL in this RFP document.
RajSWAN/ RSWAN	Rajasthan State Wide Area Network
RFP/ Bidding Document	Request for Proposal (Bidding document), an early stage in procurement process, issuing an invitation for suppliers, through a bidding process, to submit a proposal on a specific commodity or service.
RISL	RajCOMP Info Services Limited
RSDC	Rajasthan State Data Centre, New IT Building, Jaipur
Security Deposit (SD)	Amount deposited by the selected bidder prior to execution of agreement for rate contract.
Services	Any subject matter of procurement other than goods or works and includes physical, warranty, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a procuring entity and does not include appointment of any person made by any procuring entity
SLA	Service Level Agreement is a negotiated agreement between two parties wherein one is the customer and the other is the service provider. It is a service contract where the level of service is formally defined. In practice, the term SLA is sometimes used to refer to the contracted delivery time (of the service) or performance.
State Government	Government of Rajasthan (GoR)
State Public Procurement Portal	http://sppp.raj.nic.in



STQC	Standardization Testing and Quality Certification, Govt. of India
Subject Matter of Procurement	Any item of procurement whether in the form of goods, services or Works
TIN	Tax Identification Number
TPA	Third Party Auditors
WO/ PO	Work Order/ Purchase Order

1. INVITATION FOR BID (IFB) & NOTICE INVITING BID

Ref:- F4.9(1198)/RISL/Tech/Misc/2025/3880

Dated: 29-09-2025

UBN:-RIS2526SLOB00039

Name & Address of the Procuring Entity	- Name: Managing Director, RajCOMP Info Services Limited (RISL) - Address: First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Name & Address of the Project Officer In-charge (POIC)	- Name: Smt. Moon Verma - Designation: ACP Deputy Director. - Address: First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan) - Email: startups.doit@rajasthan.gov.in
Subject Matter of Procurement	Rate Contract for Supply, Operation and Maintenance of Tinkering Labs.
Bid Procedure	Single-stage: Two part (envelop) open competitive bid procedure
Bid Evaluation Criteria (Selection Method)	Least Cost Based Selection (LCBS)-L1
Websites for downloading Bidding Document, Corrigendum's, Addendums etc.	- Websites: http://eproc.rajasthan.gov.in, https://sppp.rajasthan.gov.in/, http://risl.rajasthan.gov.in and http://doitc.rajasthan.gov.in - Bidding document fee: Rs. 2,000/- (Rupees Two Thousand Only) in Cash/ Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur". - RISL Processing Fee: Rs. 2,000 (Rupees Two Thousand only) in Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur".
Timelines of Tender	- Start Date: at 29/09/2025 at 06:00 PM - End Date: at 21/11/2025 at 04:00 PM
Estimated Procurement Cost	INR 2,35,00,000 (INR Two Crore Thirty-Five Lakhs Only) Exclusive of taxes
Bid Security and Mode of Payment	- Amount (INR): 2% of the estimated procurement cost, 0.5% for S.S.I. of Rajasthan, 1% for Sick Industries, other than S.S.I., whose cases are pending with Board of Industrial & Financial Reconstruction - Mode of Payment: Demand Draft
Manner, Place & Deadline for the submission of Bids	- Manner: Online at eproc.rajasthan.gov.in - Place: First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan) - Deadline: 21/11/2025 at 04:00 PM
Pre-Bid Meeting	- Date & Time: 14/10/2025 at 03.00 PM - Place: Board Room, First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Manner, Start/ End Date for the submission of Bids	- Manner: Online at eProc website (https://eproc.rajasthan.gov.in) - Start Date: at 31/10/2025 at 06:00 PM - End Date: at 21/11/2025 at 04:00 PM
Submission of Banker's Cheque/ Demand Draft for Tender Fee, Bid Security, and Processing Fee*	- Start Date: 31/10/2025 from 06.00 PM - End Date: 21/11/2025 up to 04:00 PM
Date/ Time/ Place of Technical Bid Opening	- Date: 21/11/2025 at 04:30 PM - Place: Committee Room, Second Floor, IT Building, Yojana Bhawan Campus, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Date/ Time/ Place of Financial Bid Opening	Will be intimated later to the Technically qualified bidders

Bid Validity	180 days from the bid opening date
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Note:

- 1) Bidder (authorised signatory) shall submit their offer on-line in electronic formats both for technical and financial proposal. However, DD for Tender Fees, RISL Processing Fees and Bid Security should be submitted physically at the office of Tendering Authority as prescribed in NIB and scanned copy of same should also be uploaded along with the technical Bid/ cover.
- 2) * In case, the bidder fails to physically submit the Banker's Cheque/ Demand Draft for Tender Fee, Bid Security, and RISL Processing Fee up to the time and date mentioned in the NIB, its Bid shall not be accepted.
 - (a) The Banker's Cheque/ Demand Draft for Bidding document fee and Bid Security should be drawn in favour of "Managing Director, RISL" payable at "Jaipur" and
 - (b) The RISL Processing Fee in favour of "Managing Director, RISL" payable at "Jaipur" from any Scheduled Commercial Bank.
- 3) To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidder can procure the same from any CCA approved certifying agency, i.e. TCS, Safecrypt, Ncode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidder must register on <http://eproc.rajasthan.gov.in> (bidder already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
- 4) RISL will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
- 5) Bidders are also advised to refer "Bidders Manual Kit" available at e-Procurement website for further details about the e-Tendering process.
- 6) Training for the bidders on the usage of e-Tendering System (e-Procurement) is also being arranged by DoIT&C on a regular basis. Bidder interested for training may contact e-Procurement Cell, DoIT&C for booking the training slot.
- 7) Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in Address: e-Procurement Cell, RISL, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur
- 8) The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- 9) No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- 10) Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidder to verify such information) and the information provided therein are intended only to help the bidder to prepare a logical bid-proposal.
- 11) The provisions of RTTP Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTTP Act 2012 and Rules thereto, the later shall prevail.

-SD-
ACP(DD), DoIT&C

2. PROJECT PROFILE & BACKGROUND INFORMATION**2.1 Project Background –**

RISL, intends to establish Tinkering Labs at 33 iStart School Launchpads and 32 District Incubators (College Launchpads) across Rajasthan. Additionally, the initiative includes upgrading existing labs and ensuring the availability of consumables at all iStart Divisional Incubation Centers located in Jaipur, Bharatpur, Bikaner, Churu, Jodhpur, Kota, Pali, and Udaipur. The Tinkering Lab will be located in the premises of Startup Hubs situated in these locations and all the civil, electrical and furniture shall be provided by DoIT&C/ RISL.

2.2 Project Objectives – The objective of creating tinkering lab is following:

- Supply of tinkering lab equipments and facilitate the start-ups in prototyping.
- Provide basic items to start-ups and encourage them for prototyping.
- Provide hands-on training to students, faculties who intends to learn basic prototyping and create an environment of scientific temperament, innovation, creativity amongst Indian Students.
- Foster curiosity & experiential learning among students.
- Foster an environment of collaboration, incubation and idea acceleration.
- Monthly workshops at iStart incubation centers.

Domains of Operation

- Robotics
- Mechanical
- 3D Printing/ Rapid prototyping
- Electronics & IoT
- AI/ML
- STEM and
- Others

2.3 Objective of the Document

RISL/ DoIT&C, Government of Rajasthan intends to enter into a Rate Contract with the competent firms for establishing, operating and maintaining 8 Tinkering Labs at 8 locations, 65 iStart launchpads (As per list attached at Annexure 20). The firm shall supply install and maintain all the required items at the labs as per the orders given to the firm on time-to-time basis.

3. PRE-QUALIFICATION/ELIGIBILITY CRITERIA

- 1) A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria given below. Consortium of any form is not allowed

Srl	Basic Requirement	Specific Requirements (for single bidder)	Documents Required
1.	Legal Entity	The bidder should be a company registered under Indian Companies Act OR A partnership firm registered under Indian Partnership Act, 1932. OR A Limited Liability Partnership registered under Indian Limited Liability Partnership Act, 2008 OR A Proprietorship firm registered under the Rajasthan Shops & Commercial Establishments Act, 1958 or a similar Act of any other State/ Union, as applicable (Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder.)	Copy of Certificates of incorporation / Certificate of Registration
2.	Financial: Turnover from IT/ ITeS/	Annual Average Turnover of the bidder from IT/ ITeS/ STEM Lab/ ATL/ Robotics lab/ Coding Lab/ AI Lab during the three financial years i.e. from 2022-23, 2023-24 & 2024-25 as per the last published audited balance sheets), should be at least Rs. 2 Crore.	CA Certificate with CA's Registration Number/ Seal with UDIN
3.	Financial: Net Worth	The net worth of the bidder as per the last published balance sheet on 31-03-2025, should be Positive.	CA Certificate with CA's Registration Number/ Seal with UDIN.
4.	Certification	The firm should have ISO 9001:2015, till the last date of bid submission.	Relevant valid & certified certificate
5.	Technical Capability	The bidder should have successfully completed one work order of a minimum of Rs. 2 Crores in ATL/ Robotics/ STEM Lab/ Coding/ AI labs/ IT/ ITES sector, during any of the last three financial year (2022-23 to 2024-25) in India for Central government / NITI Aayog/ any State Government / PSU/ or any government recognized/Affiliated university/ school/ College. Or The bidder should have successfully completed two work orders of a minimum of Rs. 1.25 Crore each in ATL/ Robotics/ STEM Lab/ Coding/ AI labs/ IT/ ITES sector, during any of the last three financial year (2022-23 to 2024-25) in India for Central government/ NITI Aayog/ any State Government / PSU/ or any government recognized/Affiliated university/ school/ College.	Annexure-15 for each project reference, AND {work order and Work Completion Certificates from the client; OR Work Order + Phase Completion Certificate from the client showing installation/ acceptance of the solution and cost should as per the eligibility requirement.} OR Work order + In case of running project a CA certificate to be submitted certifying that amount of remittance from the

			project till tender submission date is equal to the eligibility requirement. AND Annexure -19
6.	LMS and Visual Coding Software	The bidder must have its own, up and running LMS and visual coding software integrated with video curriculum having features & functionality as mentioned in Bid Document.	Details and undertaking on Company Letterhead as per <u>Annexure-9</u>
7.	Tax registration and clearance	The bidder should have a registered number of: 1. GST where his business is located 2. Income Tax / Pan Number.	• GST registration Certificate/ Number • PAN Card
8.	Mandatory Undertaking	Bidder should: - a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons. b) not have, and their directors and officers do not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process or not have been otherwise disqualified pursuant to debarment proceedings. c) Not having a conflict of interest in the procurement in question as specified in the bidding document. Comply with the code of integrity as specified d) in the bidding document.	A Self Certified letter as per Annexure-9: Self-Declaration

4. SCOPE OF WORK, DELIVERABLES & TIMELINES

1. **Objective:** The iStart Tinkering Lab Program, spearheaded by the Government of Rajasthan through RISL/DoIT&C, aims to foster a culture of innovation, experiential learning, and future-skills development by establishing and upgrading Tinkering Labs across iStart School Launchpads, College Launchpads, and Incubation Centers statewide. These labs will:
 - Promote hands-on learning in emerging technologies such as Artificial Intelligence (AI), Machine Learning (ML), Internet of Things (IoT), Robotics, AR/VR, Drones, and Coding for School/ college students and startups.
 - Align educational activities with CBSE, State Board, and National Education Policy (NEP) 2020 guidelines, ensuring curricular relevance and measurable impact.
 - Cultivate critical thinking, creativity, collaboration, and entrepreneurship among students and innovators through gamified, project-based, and thematic learning modules.
 - Enable research-oriented tinkering at the undergraduate level by embedding structured innovation practices within academic routines.
 - Provide real-world problem statements and enterprise-led challenges, helping students and incubated startups develop industry-ready solutions.
 - Upgrade existing Tinkering Labs at divisional incubation centers with state-of-the-art tools and infrastructure, supported by dedicated technical manpower.
 - Ensure regular procurement of consumables for prototyping and experimentation to maintain operational excellence.
 - Host monthly workshops and knowledge sessions for students and startups, bridging the gap between classroom learning, industry expectations, and evolving technologies.
2. **Time of Operations of Tinkering Lab:** Tinkering lab shall be operational in working days of respective center/ launchpad (School and College) /Incubation Centers from Monday to Saturday except government holidays.
3. **Scope of work**

S r l	Scope of work	iStart Launchpads. No. of Labs: 33	School District (College Launchpad) No. of Labs: 32	Incubator iStart Incubation centers. No. of Labs: 8
1	Supply and Arrangement of Equipment with relevant software:	Supply all items along with Relevant software (Annexure 2) as per the Work Order and Annexure-1.	Supply all items along with relevant software (Annexure 4) as per the Work Order and Annexure-3. As detailed below	Supply all items along with relevant software (Annexure 2 and 4) as per the Work Order and Annexure-5&6. As detailed below
2	Supply of consumables	NA	NA	The selected bidder shall ensure the supply of all consumables for 24 months from the work order to be given from time to time. Refer Annexure 5.
3	Manpower Deployment	NA	NA	The bidder shall deploy one instructor in each lab (i.e.1 per lab) to manage daily operations, including: • Manage day to day operations and upkeep of tinkering lab at respective incubation center. • Maintaining lab equipment and consumables. • Supporting innovation challenges, hackathons, and workshops.

				- Coordinating with RISL/iStart officials for reporting and event support. - Training as mentioned in this RFP
4.	Training Responsibilities including LMS.	The bidder shall - train the trainer(ToT) for iStart coordinators, school teachers, DoIT&C representatives on STEM (Science, Technology, Engineering, Mathematics). - Provide a manual covering at least 10 experiments. - Coordinate with DoIT&C/RISL for online/ offline training sessions, if required. - Requirement of LMS as detailed below.	The Bidder shall - train the trainer(ToT) iStart coordinators, school teachers, DoIT&C representatives on STEM (Science, Technology, Engineering, Mathematics). - Provide a manual covering at least 20 experiments. - Coordinate with DoIT&C/RISL for online/ offline training sessions, if required. - Requirement of LMS as detailed below.	The bidder shall: - train Students and startups on monthly basis. - ensure a minimum of 8 hours of training per month, delivered to at least one batch comprising 30 participants. - Provide co-branded digital certificates to all participants upon successful completion of the training program. - Obtain feedback of each of the participants at the end of the training. - Consumables consumed during that particular training will be part of the training cost. - Provide and deliver a training plan and manual covering at least 40 experiments. - Requirement of LMS as detailed below.
5	Curriculum & Program Design	The Bidder shall Provide a structured curriculum for iStart School Launchpads. - Focus on hands-on learning, experiments, mini projects. - Print and place at least 10 copies of the manual in each lab for student's reference.	The Bidder shall Provide a structured curriculum for district Incubator (iStart College). - Focus on hands-on learning, experiments, mini-projects, capstone innovations, and interdisciplinary research. - Print and place at least 10 copies of the manual in each lab for student's reference. - Training modules aligned with concepts of engineering, computer science, and applied sciences. Focus areas: - AI/ML - IoT - Embedded Systems & Edge Computing, etc.	The bidder shall Provide and deliver a modular, outcomes-driven curriculum, aligned with user needs—startup founders, student innovators, and product teams. Key program formats include: - Hands on Experiments: 40 Plus guided modules across robotics, IoT, AI/ML Drone etc. - Design Thinking Sprints: Sprints to translate the problem in to prototyping. - Startup Skill camps; Focused workshop on MVP design, Testing, Budgeting, and iteration. - Domain hackathons: Thematic events (Agri tech, Mobility etc.). - Print and place at least 20 copies of the manual in each lab for student reference with QR Codes and Video Lectures url link.
6	Operations & Management (O&M)	The selected bidder shall provide technical support and timely maintenance of all hardware (Warranty Period) and software.	The selected bidder shall provide technical support and timely maintenance of all hardware (Warranty Period) and software.	- Labs must operate six days a week in official working hours of incubation, centers except government holidays. - All equipment must be maintained in working conditions with preventive maintenance every quarter. - Consumables (e.g., 3D printing filament, soldering supplies) must be refilled

				monthly or as per usage. - Faulty equipment must be replaced within 7 days. - Partner must maintain logbooks, equipment issue/return registers, and stock audit reports. - The lab will offer the following services to users: ➤ Prototyping support for startup product ideas ➤ Project development mentoring ➤ Technical guidance for innovation competitions (e.g., Smart India Hackathon) ➤ Support for POC demonstration in front of iStart or external funding panels
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Note:

- **For Supply of Equipment along with relevant software in college launchpad:** The selected bidder will be responsible for:
 - Supplying and installing equipment for AIoT-integrated experimentation.
 - AI kits, IoT boards (Arduino/Raspberry Pi), robotics-based hands-on learning kits.
 - Advanced AIoT hardware Kits, Real time AI applications and Mobile and Web Integration.
 - Help in design of AI/ML Workbench, IoT Studio, Rapid Prototyping Area, Co-Creation Zone.
 - Practical learning tools, hardware and real-world AI applications.
 - Sensors, automation modules, and prototyping materials.
 - Ensure all items are of high quality and undergo pre-delivery quality checks.
- **For Supply of equipment along with relevant software at iStart Incubation centers:** The bidder shall supply and installation of upgraded technology to enhance the capabilities of existing labs. This may include:
 - AI/ML kits and edge computing modules.
 - AR/VR headsets and development platforms.
 - Drone prototyping kits and flight simulators.
 - Advanced 3D printers and CNC mini-mills.
 - IoT development boards with cloud integration.
 - Robotics/mechatronics
- **Minimum Qualifications for Manpower:(Instructor)**
 - Minimum B.E. /B.Tech/MCA/M.Tech/Msc. (Computer Science, Information technology, Electronics and Telecom) with at least 1 year of experience in tinkering, robotics, or embedded systems.
 - Strong communication and mentoring skills.
- **Ensure** all items are of high quality and undergo pre-delivery quality checks.
- **Provide** comprehensive onsite OEM warranty as per Chapter 6 (Terms & Conditions).
- **Labelling** & systematic arrangement of Equipments.
- **Realtime Software/ LMS:** The selected bidder shall provide a learning management Platform (LMS/ Realtime Dashboard) Including
 - A. Dashboard**
 1. The School/College launchpad coordinators/Mentors/iStart officials should be able to create the custom digital classroom for each Grade/Semester.
 2. There should be a facility to award Grade/Semester wise digital content & curriculum to students.

3. Live tracking of the lessons taken by students online, with facility to generate reports and certificates on completion of the course(s) by students.

B. Student Web Portal and Mobile App

1. Students must be able to access the assigned courses via Laptop, Computer, Tab and App.
2. LMS must have a feature to toggle between languages (Hindi & English) for each lecture video.
3. To create an environment of healthy competition and encouragement, the Student's Leader board and gamification (Badges/ Points) should be available.

C. Mentor Portal

1. LMS must have separate Mentor Portal, enabling mentor to add students in assigned Grades, check the digital performance of students. Assign & check Projects and resolve student doubts.
2. Separate Leader board of Teachers to evaluate Teacher performance.

D. Video curriculum: Video Curriculum in HD quality (English & Hindi) of Activities as per Annexure 2 and 4 must be available in the LMS.

E. Visual Coding Software: Bidder must provide proprietary Visual Coding Software having following features and functionalities: -

- The Software must be a unified and comprehensive graphical block-based and script-based programming software platform that effectively addresses both software development (including games, animations, and interactive storytelling) and hardware programming requirements. The platform must also incorporate a full-featured Python programming environment to cater to text-based coding needs.
- The software should support seamless hardware code generation, real-time on-device compilation, and firmware uploading capabilities. It must facilitate real-time execution with stable, bi-directional communication between the software and connected hardware via Serial Monitor/Console interfaces.
- The User Interface (UI) and User Experience (UX) of the platform must be available in both Hindi and English, ensuring accessibility and ease of use for diverse user groups. The software must also be capable of functioning effectively in both online and offline environments to accommodate varying infrastructure conditions.
- The software should also include a cloud storage feature, allowing users to save their projects to their respective accounts.
- platform must integrate a comprehensive suite of AI-powered extensions, including:
 - Computer Vision
 - Face Detection
 - Object Detection
 - Speech Recognition
 - Optical Character Recognition (OCR)
 - Hand and Pose Detection
 - Language Translation
 - Text-to-Speech
 - QR Code Reader
 - AI Assistant
 - Real-Time Weather Data Integration
 - Firebase Cloud Integration etc.

Note:

- Multilingual Content Delivery: The LMS shall support pre-recorded video content in both Hindi and English to cater to a diverse learner base.

- QR-linked experiment videos in LMS.
- Robotics/STEM/AI Course Curriculum Videos mentioned in the Bid Document must be available in LMS. (Annexure 2 & Annexure 4)
- LMS online link along with credentials (Login Id and password) for School Panel, Teacher Panel, Student Panel, Student App.

4. Roles & Responsibilities:**a. RISL:**

- Coordinate with user departments, School/College Authorities and Incubation authorities.
- Conduct periodic review meetings and monitor project progress for iStart incubation centers.
- Oversee training plans and approve deliverables for iStart Incubation centers.
- Process payments to the selected bidder as per SLA.
- Provide necessary support for smooth implementation.
- Nominate teachers/Coordinators for training and support lab operations in iStart School and College launchpads.
- One full day training for ToT (Schools & Colleges) shall be provided at the central place for the trainees as decided by RISL. The responsibility of location and hardware equipment will lie with RISL. The selected bidder will have to provide trainers and relevant training manuals in print form towards this training

5. Project Deliverables, Milestones & Time Schedule:

- a. The selected bidder is expected to carry out all work as specified in above mentioned clauses. Reports or deliverables are to be submitted timely by the supplier to the purchaser to ensure timely and smooth execution of project.
- b. Details of milestones, deliverables, activities and applicable payment is given in Chapter 7 (Special Terms and Conditions of Tender & Contract) of the RFP document.

5. INSTRUCTION TO BIDDERS (ITB) & BIDDING PROCESS-

- 1. Sale of Bidding/ Tender Documents:** The sale of bidding documents shall commence from the date given in NIB. The complete bidding document shall also be placed on the RISL and e-Procurement portal. The prospective bidders shall be permitted to download the bidding document from the websites and pay its price while submitting the Bid to the procuring entity.
- 2. Pre-bid Meeting/ Clarifications-**
 - a) Any prospective bidder may, in writing, seek clarifications from the procuring entity in respect of the bidding documents.
 - b) A pre-bid conference is also scheduled by the procuring entity as per the details mentioned in the NIB and to clarify doubts of potential bidders in respect of the procurement and the records of such conference shall be intimated to all bidders and where applicable, shall be published on the respective websites.
 - c) The period within which the bidders may seek clarifications and the period within which the procuring entity shall respond to such requests for clarifications shall be as under: -
 - Last date of submitting clarifications requests by the bidder: as per NIB
 - Response to clarifications by procuring entity: as per NIB
 - d) The minutes and response, if any, shall be provided promptly to all bidders to which the procuring entity provided the bidding documents, so as to enable those bidders to take minutes into account in preparing their bids, and shall be published on the respective websites.
- 3. Changes in the Bidding Document-**
 - a) At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
 - b) In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
 - c) In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
 - d) Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity:
Provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.
- 4. Period of Validity of Bids-**
 - a) Bids submitted by the bidders shall remain valid during the period specified in the NIB/ bidding document. A Bid valid for a shorter period may be rejected by the procuring entity as non-responsive Bid.
 - b) Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.
 - c) Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security

is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

5. Format and Signing of Bids-

- a) Bidders must submit their bids online at eProcurement portal i.e. <http://eproc.rajasthan.gov.in>.
- b) All the documents uploaded should be digitally signed with the DSC of authorized signatory.
- c) A Single Stage Two part/ cover system shall be followed for the Bid: -
 - i. Technical Bid, including fee details, eligibility & technical documents
 - ii. Financial Bid
- d) The technical bid shall consist of the following documents: -

SNo	Documents Type	Document Format
Index		
1	Index of all documents	The index will consist all documents with page number. The separate index of work orders and number of labs is also to be submitted as per Annexure-19
Mandatory Fee Details		
2.	Bidding Document Fee, Bid Security Deposit, RISL Processing Fee. The responding firm / agency a) Should have made a payment of RFP Document Fee as mentioned in the NIB b) Should have submitted a Bid Security as mentioned in the NIB. c) Should have submitted Processing Fees as mentioned in the NIB	a) Fee Receipt/ DD/ Banker's Cheque for Document Fee b) DD for the Bid Security c) DD/ Banker's Cheque for Processing Fees
Eligibility Documents		
3.	Bidder's Authorisation Certificate along with Power of Attorney/ Board Resolution authorizing the person to sign the documents/ bids on behalf of the firm	As per Annexure-8 (PDF)
4.	All the documents mentioned in the "Eligibility Criteria", in support of the Eligibility	As per the format mentioned against the respective eligibility criteria clause (PDF)
Technical Documents		
5.	Documents required for Technical Evaluation as mentioned in technical evaluation criteria	Documents as per technical evaluation criteria
6.	Bidder Compliance Sheet	As per Annexure-1,3,5 & 6 (PDF)
7.	Self-declaration	As per Annexure-9 (PDF)
8.	Certificate of Conformity/ No Deviation	As per Annexure-10 (PDF)
9.	Undertaking for Authenticity of equipments	As per Annexure-17 (PDF)
10.	MAF of 3D printer	As per specification at Annexure 18(PDF)
11.	MAF of AR/VR headset	As per specification at Annexure 18(PDF)
12.	Detailed presentation of the bidder	As per clause 15 (c) Part-5

- e) Financial bid shall include the following documents: -

SNo	Documents Type	Document Format
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1.	Covering Letter – Financial Bid	On bidder's letter head duly signed by authorized signatory as per Annexure-11(PDF)
2.	Financial Bid	As per BoQ (.XLS) format available on e-Proc portal. As per Annexure-12

- f) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/content may lead to the rejections of the Bid submitted by the bidder.

6. Cost & Language of Bidding-

- a) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- b) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

7. Alternative/ Multiple Bids- Alternative/ Multiple Bids shall not be considered at all. Also, the bidder shall not quote for multiple brands/ make/ models but only one in the technical Bid.

8. Bid Security – Every bidder, if not exempted, participating in the procurement process will be required to furnish the bid security as specified in the NIB.

- a) In lieu of bid security, a bid securing declaration shall be taken from Departments of the State Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.
- b) Bid security instrument or cash receipt of bid security or a bid securing declaration shall necessarily accompany the technical bid.
- c) Bid security of a bidder lying with the procuring entity in respect of other bids awaiting decision shall not be adjusted towards bid security for the fresh bids. The bid security originally deposited may, however, be taken into consideration in case bids are re-invited.
- d) The bid security may be given in the form of a banker's cheque or demand draft or bank guarantee, in specified format, of a scheduled bank. The bid security must remain valid thirty days beyond the original or extended validity period of the bid.
- e) The issuer of the bid security and the confirmer, if any, of the bid security, as well as the form and terms of the bid security, must be acceptable to the procuring entity.
- f) Prior to presenting a submission, a bidder may request the procuring entity to confirm the acceptability of proposed issuer of a bid security or of a proposed confirmer, if required. The procuring entity shall respond promptly to such a request.
- g) The bank guarantee presented as bid security shall be got confirmed from the concerned issuing bank. However, the confirmation of the acceptability of a proposed issuer or of any proposed confirmer does not preclude the procuring entity from rejecting the bid security on the ground that the issuer or the confirmer, as the case may be, has become insolvent or has otherwise ceased to be creditworthy.
- h) The bid security of unsuccessful bidders shall be refunded soon after final acceptance of successful bid and signing of Agreement and submitting performance security.
- i) The Bid security taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
- I. when the bidder withdraws or modifies its bid after opening of bids;
 - II. when the bidder does not execute the agreement, if any, after placement of supply/ work order within the specified period;

- iii. when the bidder fails to commence the supply of the goods or service or execute work as per supply/ work order within the time specified.
- iv. when the bidder does not deposit the performance security within specified period after the supply/ work order is placed; and
- v. if the bidder breaches any provision of code of integrity, prescribed for bidders specified in the bidding document.
- j) Notice will be given to the bidder with reasonable time before bid security deposited is forfeited.
- k) No interest shall be payable on the bid security.
- l) In case of the successful bidder, the amount of bid security may be adjusted in arriving at the amount of Performance Security or refunded if the successful bidder furnishes the full amount of performance security.
- m) The procuring entity shall promptly return the bid security after the earliest of the following events, namely: -
 - i. the expiry of validity of bid security.
 - ii. the execution of agreement for procurement and performance security is furnished by the successful bidder.
 - iii. the cancellation of the procurement process; or
 - iv. the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

9. Period of Validity of Bids:

- a) Bids submitted by the bidders shall remain valid during the period specified in the bidding documents.
- b) Prior to the expiry of the period of validity of bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of bid but in such circumstances bid security shall not be forfeited.
- c) Bidders that agree to an extension of the period of validity of their bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its bid.

10. Deadline for the submission of Bids-

- a) Bids shall be received online at e-Procurement portal and within the time and date specified in the NIB.
- b) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding documents are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the State Public Procurement Portal, if applicable. It would ensure that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

11. Withdrawal, Substitution, and Modification of Bids-

- a) If permitted on e-Procurement portal, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure mentioned at e-Procurement website under the section "Bidder's Manual Kit".

- b) Bids withdrawn shall not be opened and processes further.

12. Opening of Bids-

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

13. Selection Method- Bidder would be selected on the basis of Least Cost Based Selection Method (LCBS) i.e. L1 method wherein an eligible bidder with the most cumulative competitive (lowest or L1) rates / quote would be selected for the implementation of the project.

14. Clarification of Bids-

- a) To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
- b) Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
- c) No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- d) No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

15. Evaluation & Tabulation of Technical Bids-

a) Determination of Responsiveness-

- i. The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.

- ii. A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
 - a. "deviation" is a departure from the requirements specified in the bidding document;
 - b. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 - c. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- iii. A material deviation, reservation, or omission is one that,
 - a. if accepted, shall:-
 - affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
 - limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
 - b. if rectified, it shall unfairly affect the competitive position of other bidders presenting responsive Bids.
 - The Bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
 - The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.
- b) **Non-material Non-conformities in Bids-**
 - i. The Bid Evaluation Committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
 - ii. The bid evaluation committee may request the bidder to submit the necessary information or documents like audited statement of accounts/ CA Certificate, Registration Certificate, ISO/ CMMI Certificates, etc. within a reasonable period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.
 - iii. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.
- c) **Technical Evaluation Criteria (Part Wise):** Bids shall be evaluated based on the documents submitted as a part of technical bid. Technical bid shall contain all the documents as asked in the clause "**Format and Signing of Bids**" and documents mentioned in the table below for obtaining marks in the respective parameter.

Before the opening of financial bid the bidder has to qualify the Prequalification criteria as well as technical criteria as mentioned below:

Srl	Item Description	Max. Marks	Relevant Document
1	Average annual turnover for the period 2022-23, 2023-24, 2024-25 >= 2 Cr and <= 3 Cr - 11 Marks >3 Cr and <=4 Cr - 13 Marks >4 Cr – 15 Marks	15	CA certificate with UDIN
2	Successfully completed work orders in ATL/Robotics/STEM Lab/ Coding/AI labs/IT/ITES sector, during any of the last three financial year (2022-23 to 2024-25) in India for Central	20	Verified by CA for completion of number of labs/Supply of kits on behalf of work order issued to the bidder. The index of all

	government /NITI Aayog/any State Government / PSU/or any government recognized university/ school/ College. >= 2 Cr and <= 4 Cr - 11 Marks > 4 Cr and <= 6 Cr - 15 Marks > 6 Cr - 20 Marks		labs to be provided {CA certificate with UDIN}
3	Experience in the field of Tinkering lab/IoT/STEM/Robotics Labs/ (In years) >= 3 a n d <= 4 - 7 Marks > 4 and <=5 - 8Marks > 5 – 10 Marks	10	The first work order for tinkering labs + Completion certificate
4.	Establishment of Tinkering/ STEM/ ATL/ Robotics/ AI/ML lab Number of Labs >=100 and <=150- 11 Marks >150 and <=200- 13 Marks >200 - 15 Marks	15	All The work order in Tabularized (Annexure-19) form + Completion certificate from the client. Or Work Order + Phase Completion Certificate from the client showing installation/ acceptance of the solution and cost should as per the eligibility requirement. OR Work order + In case of running project a CA certificate to be submitted certifying that amount of remittance from the project till tender submission date is equal to the eligibility requirement AND Annexure -19
5	Proposed plan to run the tinkering labs • Understanding about the program and Scope of work. • Two-year detailed plan (Strategy and Implementation) • Expertise which bidder brings in establishing similar labs. • Qualification and Experience of resources/ Team proposed to be deployed • Demonstration of the Learning Management Software & Visual Programming Software. The detailed presentation may be taken for the above points after opening of technical bid	40	Detailed plan submitted and subsequent presentation.
Total Marks		100	

The bidder has to obtain 70 marks out of maximum marks (100) as per the above technical criteria. The presentation is to be submitted along with the technical bid at the time of submission of bid documents.

d) **Tabulations** of Technical Bids-

- If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria

for qualification set out in the bidding document.

- ii. The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- iii. The number of firms qualified in technical qualification, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- iv. The bidders who qualified in the technical qualification shall be informed in writing about the date, time and place of opening of their financial Bids.

16. Evaluation & Tabulation of Financial Bids- Subject to the provisions of “Acceptance of Successful Bid and Award of Contract” below, the procuring entity shall take following actions for evaluation of financial Bids:-

- a) The financial Bids of the bidders who qualified in technical evaluation shall be opened online at the notified time, date and place by the bid evaluation committee in the presence of the bidders or their representatives who choose to be present
- b) the process of opening of the financial Bids shall be similar to that of technical Bids.
- c) the names of the bidders, the rates given by them and conditions put, if any, shall be read out and recorded;
- d) conditional Bids are liable to be rejected;
- e) the evaluation shall include all costs and all taxes and duties applicable to the bidder as per law of the Central/ State Government/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied;
- f) The offers shall be evaluated and marked L1, L2, L3 etc. L1 being the lowest offer on the consolidated quoted price and then others in ascending order in case price is the only criteria, or evaluated and marked H1, H2, H3 etc. in descending order.
- g) The bid evaluation committee shall prepare a comparative statement in tabular form in accordance with rules along with its report on evaluation of financial Bids and determine the lowest offer for acceptance to the procuring entity.
- h) The members of bid evaluation committee shall give their recommendations regarding the lowest bid or most advantageous bid and sign it.
- i) it shall be ensured that the lowest bid / offer is justifiable looking to the prevailing market rates of the goods, works or service required to be procured

17. Correction of Arithmetic Errors in Financial Bids- The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely-

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

18. Price/ purchase preference in evaluation- Price and/ or purchase preference notified by the State Government (GoR) and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

19. Negotiations-

- a) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.
- b) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder

- when the rates are considered to be much higher than the prevailing market rates.
- c) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
 - d) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.
 - e) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
 - f) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
 - g) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

20. Exclusion of Bids/ Disqualification-

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

21. Lack of competition-

- a) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc. were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that:-
 - i. the Bid is technically qualified;
 - ii. the price quoted by the bidder is assessed to be reasonable;

- iii. the Bid is unconditional and complete in all respects;
 - iv. there are no obvious indicators of cartelization amongst bidders; and
 - v. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document
- b) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.
 - c) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
 - d) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.
- 22. Acceptance of the successful Bid and award of rate contract**
- a) The procuring entity after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
 - b) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
 - c) Before award of the rate contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
 - d) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
 - e) The procuring entity shall award the rate contract to the bidder whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
 - f) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
 - g) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned bidder by registered post or email and asked to execute an "Agreement for rate contract" within fifteen days from the date on which the letter for rate contract is dispatched to the bidder, in the format provided by RISL to the successful bidder on a non-judicial stamp of requisite value and the "Bid Security Deposit" (SD).
 - h) If the issuance of formal "Letter of rate contract" is likely to take time, in the meanwhile a Letter of Intent (LOI) may be sent to the bidder. The acceptance of rate contract is complete as soon as the formal "Agreement for rate contract" is executed, the "letter of rate contract" or LOI shall constitute a binding contract.
 - i) The bid security of the bidders whose Bids could not be accepted shall be refunded soon after the "Agreement for rate contract" with the selected bidder is signed and its "Security Deposit" (SD) is obtained.
- 23. Information and publication of award:** Information of award of rate contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.
- 24. Procuring entity's right to accept or reject any or all Bids:** The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.
- 25. Security Deposit (SD)**

- a) Bidder shall submit the Security Deposit with in fifteen days of issue of letter of rate contract in case the EMD cannot be converted to Security Deposit as per the terms and conditions of this bidding document.
- b) Refund of SD: The SD shall be refunded after three (03) months of the expiry of the rate contract period.
- c) Forfeiture of SD: The SD taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
 - a. When any terms and condition of the rate contract is breached or cancelled
 - b. when the bidder does not accept any work order issued anytime during the period of rate contract
 - c. when the bidder fails to commence the supply of the goods or service or execute work issued under this rate contract
 - d. when the bidder does not deposit the requisite performance security within the period specified in the work order, issued under this rate contract
- d) Notice will be given to the bidder with reasonable time before Security Deposit (SD) deposited with RISL is forfeited.
- e) No interest shall be payable on the deposited SD.

26. Execution of Agreement for Rate Contract

- a) A procurement contract shall come into force from the date on which the letter of rate contract is dispatched to the bidder.
- b) The selected bidder shall sign the Agreement for Rate Contract within 15 days from the date on which the letter of rate contract or letter of intent is dispatched to the selected bidder.
- c) If the bidder, who's Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.
- d) The bidder will be required to execute the agreement for rate contract on a non-judicial stamp of specified value at its cost and to be purchase from anywhere in Rajasthan only.

27. Work Order Issued to Bidders under Rate Contract

- a) As per the project requirements, from time to time, the Purchaser shall issue work order to the selected bidder(s) for supply, installation and commissioning of various equipment for Tinkering lab or STEM Lab, however the rate contract does not guarantee the bidder to receive any minimum / committed number of work order (/s) from RISL
- b) The work order shall specify the quantity of various items to be supplied along with location details and delivery schedule for supply and installation.
- c) After receiving the work order, the bidder shall be responsible to deposit the requisite Performance Security Deposit (PSD) within the prescribed time period as specified in each work order.

28. Performance Security Deposit (PSD)

- a) Performance security shall be solicited from all successful bidders except the
 - i. Departments/Boards of the State Government or Central Government.
 - ii. Government Companies as defined in clause (45) of section 2 of the Companies Act, 2013.
 - iii. Company owned or controlled, directly or indirectly, by the Central Government, or by any State Government or Governments, or partly by the Central Government and partly by one or more State Governments which is subject to audit by the Auditor appointed by the Comptroller and Auditor-General of India under sub-section (5) or (7) of section 139 of the Companies Act, 2013.
 - iv. Autonomous bodies, Registered Societies, Cooperative Societies which are owned or controlled

- or managed by the State Government or Central Government.
- v. Bidder in procurement related to Panchayat Samiti Nandishala Jan Sahbhagita Yojana or Gram Panchayat Goshala/Pashu Asharya Sthal Jan Sahbhagita Yojana issued by the State Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in a particular procurement or any class of procurement.
 - b) Successful bidder must deposit 2% of the contract value (inclusive of taxes) as Security Deposit at the time of signing the contract. Additionally, successful bidder is required to submit 5% of the work order value as performance security for each work order.
 - c) The amount of performance security shall be 5% of the amount of supply order in case of procurement of goods and services. In case of Small-Scale Industries (SSI) of Rajasthan, it shall be 1% of the amount of quantity ordered for supply of goods and in case of sick industries, other than SSI, whose cases are pending before the Board of Industrial and Financial Reconstruction (BIFR), it shall be 2% of the amount of supply order.
 - d) Performance security shall be furnished in any one of the following forms: -
 - a. Bank Draft or Banker's Cheque of a scheduled bank.
 - b. National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master;
 - c. Bank guarantee/s of a scheduled bank, in case the amount of PSD is more than 10 lakhs. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as mentioned in the bidding document for bid security;
 - d. Fixed Deposit Receipt (FDR) of a scheduled bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the FDR that the bidder furnishes an undertaking from the bank to make payment/ premature payment of the FDR on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.
 - e) Performance security furnished in the form specified in clause (a.) to (d.) of sub clause (d) above shall remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations and defect liability period as specified in each work order.
 - f) Additional Performance Security- In addition to Performance Security as specified in rule 75, an Additional Performance Security shall also be taken from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to fifty percent of Unbalanced Bid Amount. The Additional Performance Security shall be deposited in lump sum by the successful bidder before execution of Agreement. The Additional Performance Security shall be deposited through e-Grass, Demand Draft, Banker's Cheque, Government Securities, Bank guarantee or electronic Bank Guarantee (e-BG)

Explanation : For the purpose of this rule,- (i) Unbalanced Bid means any bid below more than fifteen percent of Estimated Bid Value. (ii) Estimated Bid Value means value of subject matter of procurement mention in bidding documents by the Procuring Entity. (iii) Unbalanced Bid Amount means positive difference of eighty five percent of Estimated Bid Value minus Bid Amount Quoted by the bidder.
 - g) The Additional Performance Security shall be refunded to the contractor after satisfactory completion of the entire work. The Additional Performance Security shall be forfeited by the Procuring Entity when work is not completed within stipulated period by the contractor.
 - h) **Forfeiture of Performance Security Deposit (PSD):** PSD amount in full or part may be forfeited, including interest, if any, in the following cases:-

- a. When any terms and condition of the contract is breached.
 - b. When the bidder fails to make complete supply as per the scope of tender document.
 - c. Forfeit of PSD against noncompliance of order against RC
 - d. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
 - e. Notice will be given to the bidder with reasonable time before PSD deposited is forfeited.
 - f. No interest shall be payable on the PSD.
- 29. Information and publication of award-** Information of award of contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.
- 30. Procuring entity's right to accept or reject any or all Bids:** The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.
- 31. Right to vary quantity-**
- a) If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation.
 - b) Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract. Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as under: -
 - i. 50% of the quantity of the individual items and 50% of the value of original contract in case of works; and
 - ii. 50% of the value of goods or services of the original contract.
- 32. Confidentiality-**
- a) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
 - a. impede enforcement of any law;
 - b. affect the security or strategic interests of India;
 - c. affect the intellectual property rights or legitimate commercial interests of bidders;
 - d. affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
 - b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorised to have access to such information.
 - c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
 - d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.
- 33. Cancellation of procurement process-**
- a) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
 - b) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it -
 - i. at any time prior to the acceptance of the successful Bid; or
 - ii. after the successful Bid is accepted in accordance with (d) and (e) below.
 - c) The procuring entity shall not open any bids or proposals after taking a decision to cancel the

procurement and shall return such unopened bids or proposals.

- d) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- e) If the bidder who's Bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- f) If a bidder is convicted of any offence under the Act, the procuring entity may: -
 - i. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
 - ii. rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

34. Code of Integrity for Bidders-

- a) No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
- b) The code of integrity includes provisions for: -
 - i. Prohibiting
 - a. any offer, solicitation or acceptance of any bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
 - b. any omission, including a misrepresentation that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
 - c. any collusion, bid rigging or anti-competitive behaviour to impair the transparency, fairness and progress of the procurement process;
 - d. improper use of information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process or for personal gain;
 - e. any financial or business transactions between the bidder and any officer or employee of the procuring entity;
 - f. any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
 - g. any obstruction of any investigation or audit of a procurement process;
 - ii. disclosure of conflict of interest;
 - iii. disclosure by the bidder of any previous transgressions with any entity in India or any other country during the last three years or of any debarment by any other procuring entity.
- c) Without prejudice to the provisions below, in case of any breach of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate measures including: -
 - i. exclusion of the bidder from the procurement process;
 - ii. calling-off of pre-contract negotiations and forfeiture or encashment of bid security;
 - iii. forfeiture or encashment of any other security or bond relating to the procurement;
 - iv. recovery of payments made by the procuring entity along with interest thereon at bank rate;
 - v. cancellation of the relevant contract and recovery of compensation for loss incurred by the procuring entity;
 - vi. debarment of the bidder from participation in future procurements of the procuring entity for a period not exceeding three years.

35. Interference with Procurement Process- A bidder, who: -

- a) withdraws from the procurement process after opening of financial bids;
- b) withdraws from the procurement process after being declared the successful bidder;
- c) fails to enter into procurement contract after being declared the successful bidder;
- d) fails to provide performance security or any other document or security required in terms of the bidding documents after being declared the Selected Bidder, without valid grounds, shall, in

addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

36. Appeals-

- a) Subject to section 4 of RTTP Act, 2012, if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of this Act or the rules or guidelines issued thereunder, he may file an appeal to such officer of the procuring entity, as may be designated by it for the purpose, within a period of ten days or such other period as may be specified in the pre-qualification documents, bidder registration documents or bidding documents, as the case may be, from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved: Provided that after the declaration of a bidder as successful in terms of section 27 of RTTP Act, 2012, the appeal may be filed only by a bidder who has participated in procurement proceedings. Provided further that in case a procuring entity evaluates the technical bid before the opening of the financial bid, an appeal related to the matter of financial bid may be filed only by a bidder whose technical bid is found to be acceptable.
- b) If the officer designated under sub-section (1) fails to dispose of the appeal filed under that sub-section within the period specified in subsection (3), or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed under sub section (2), the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to an officer or authority designated by the State Government in this behalf within fifteen days from the expiry of the 31 period specified in sub-section (3) or of the date of receipt of the order passed under sub-section (2), as the case may be.
- c) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- d) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.
 - a. First Appellate Authority: Secretary/ Principal Secretary, IT&C, Govt. of Rajasthan
 - b. Second Appellate Authority: Secretary, Finance (Budget) Department, Govt. of Rajasthan.
- e) Fee for filing appeal
 - a. Fee for first appeal shall be rupees of two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
 - b. The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank payable in the name of Appellate Authority concerned.
- f) Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

37. Vexatious Appeals & Complaints- Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint under the "The Rajasthan Transparency Public Procurement Act 2012", with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

38. Offences by Firms/ Companies-

- a) Where an offence under "The Rajasthan Transparency Public Procurement Act 2012" has been committed by a company, every person who at the time the offence was committed was in charge of and was responsible to the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of having committed the offence and shall be liable to be proceeded against and punished accordingly:
Provided that nothing contained in this sub-section shall render any such person liable for any punishment if he proves that the offence was committed without his knowledge or that he had

exercised all due diligence to prevent the commission of such offence.

- b) Notwithstanding anything contained in (a) above, where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of or is attributable to any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of having committed such offence and shall be liable to be proceeded against and punished accordingly.
- c) For the purpose of this section-
 - i. "company" means a body corporate and includes a limited liability partnership, firm, registered society or co-operative society, trust or other association of individuals; and
 - ii. "director" in relation to a limited liability partnership or firm, means a partner in the firm.
- d) Abetment of certain offences: Whoever abets an offence punishable under this Act, whether or not that offence is committed in consequence of that abetment, shall be punished with the punishment provided for the offence.

39. Debarment from Bidding-

- a) A bidder shall be debarred by the State Government if he has been convicted of an offence
 - i. under the Prevention of Corruption Act, 1988 (Central Act No. 49 of 1988); or
 - ii. under the Indian Penal Code, 1860 (Central Act No. 45 of 1860) or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- b) A bidder debarred under (a) above shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date on which he was debarred.
- c) If a procuring entity finds that a bidder has breached the code of integrity prescribed in terms of "Code of Integrity for bidders" above, it may debar the bidder for a period not exceeding three years.
- d) Where the entire bid security or the entire performance security or any substitute thereof, as the case may be, of a bidder has been forfeited by a procuring entity in respect of any procurement process or procurement contract, the bidder may be debarred from participating in any procurement process undertaken by the procuring entity for a period not exceeding three years.
- e) The State Government or a procuring entity, as the case may be, shall not debar a bidder under this section unless such bidder has been given a reasonable opportunity of being heard.

40. Monitoring of Contract-

- a) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by the procuring entity to monitor the progress of the contract during its delivery period.
- b) During the delivery period the CMC shall keep a watch on the progress of the contract and shall ensure that the quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the Selected Bidder's premises where the work is being completed may be inspected.
- c) If delay in delivery of goods and service is observed a performance notice would be given to the Selected Bidder to speed up the delivery.
- d) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- e) No new partner/ partners shall be accepted in the firm by the Selected Bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for

acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.

- f) The Contract Monitoring Committee shall give final approvals on proposed Change Requests (if any) based on the man-month rates and effort estimation, during the course of the project.
- g) In case the, Contract Monitoring Committee finds the services provided by the System Integrator to be satisfactory and intends to increase the Support and Maintenance of Software solution, RISL can do this by incrementing the Support and Maintenance Cost by 10% annually on the quoted amount on a prorated basis.

41. Restrictions on procurement from a bidder of a country which shares a land border with India:

- a) The bidders belonging to or with beneficial ownership from countries sharing land border with India, for participation in any public procurement in the State, shall only be allowed after prior registration with the Industries Department of the Government of Rajasthan.
- b) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered either with the Competent Authority of GoI by Department of Promotion of Industries and internal trade under the Ministry of Commerce and Industry or with the Competent Authority of GoR.

6. TERMS AND CONDITIONS, OF TENDER & CONTRACT-

The procurement process under this bidding document, terms & conditions mentioned herein are governed by the RTPP Act, 2012. Bidder should read these conditions carefully and comply strictly while sending their Bid.

6.1 Definitions-

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

- a) "Contract" means the agreement entered into between the Purchaser and the successful / Selected Bidder together with the contract documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- b) "Contract Documents" means the documents listed in the agreement, including any amendments thereto.
- c) "Contract Price" means the price payable to the successful / Selected Bidder as specified in the agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- d) "Day" means a calendar day.
- e) "Delivery" means the transfer of the Goods and Services from the successful / Selected Bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- f) "Completion" means the fulfilment of the related services by the successful / Selected Bidder in accordance with the terms and conditions set forth in the contract.
- g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful / Selected Bidder is required to supply to the Purchaser in the contract.
- h) "Purchaser" means the entity purchasing the Services, Goods and Related Services, as specified in the bidding document.
- i) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful / Selected Bidder under the Contract.
- j) "Services" means the services to be delivered by the successful bidder and as required to run the project successfully as per the contract. A service is the intangible equivalent of an economic good.
- k) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the

Goods/Services to be supplied or execution of any part of the Related Services is subcontracted by the successful / Selected Bidder.

- l) "Supplier / Successful or Selected Bidder" means the person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful / Selected Bidder.
- m) "The Site," where applicable, means the designated project place(s) named in the bidding document.

Note: The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

A. General Conditions of the Bid-

6.2 Contract Documents: Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

6.3 Interpretation-

- A. If the context so requires it, singular means plural and vice versa.
- B. Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier / Selected Bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- C. Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- D. Non-waiver: Subject to the condition (f) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- E. Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- F. Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

6.4 Language-

- A. The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful / Selected Bidder and the Purchaser, shall be written in English language only or as specified in the special conditions of the contract. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- B. The successful / Selected Bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

6.5 Consortium- Consortium of any type is not allowed.

6.6 Eligible Services, Goods and Related Services-

- a) For purposes of this Clause, the term "services" includes the services to be delivered by the Selected Bidder as per scope of work and required to run the project successfully, "goods"

includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.

- b) All articles/ goods being bid, other than those marked in the Bill of Material (BoM) should be the ones which are produced in volume and are used by a large number of users in India/ abroad. All products quoted by the successful / Selected Bidder must be associated with specific make and model numbers, item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the bidder/ supplier. Also, the bidder is to quote/ propose only one make/ model against the respective item.
- c) The OEM/ Vendor of the quoted product must have its own registered spares depot/support services based in India having adequate inventory of the equipment being quoted for providing the necessary spares as per the requirement of the RFP.
- d) The OEM/ Vendor of the quoted product should also have its direct representation in India in terms of registered office for at least past 2 years. The presence through any Distribution/ System Integration partner agreement will not be accepted.
- e) Bidder must quote products in accordance with above clause “Eligible Services, goods and related services”.

6.7 Notices-

- a) Any Notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the contract. The term “in writing” means communicated in written form with proof of dispatch and receipt.
- b) A Notice shall be effective when delivered or on the Notice’s effective date, whichever is later.

6.8 Governing Law- The Contract shall be governed by and interpreted in accordance with the laws of the Rajasthan State/ the Country (India), unless otherwise specified in the contract.

6.9 Scope of Supply-

- a) Subject to the provisions in the bidding document and contract, the Services, Goods and Related Services to be supplied shall be as specified in Scope of Work/ Schedule of Supply section of the bidding document.
- b) Unless otherwise stipulated in the Contract, the scope of supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of goods and services as if such items were expressly mentioned in the Contract.
- c) The bidder shall not quote and supply and software that is likely to be declared as End of Sale in next 6 months and End of Service/ Support for a period of 2 Years from the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted software. If any of the software is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such software with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

6.10 Delivery & Installation-

- a) Subject to the conditions of the contract, the delivery of the goods, services and completion of the related services shall be in accordance with the delivery and completion schedule specified in the bidding document. The details of supply/ shipping and other documents to be furnished by the successful / Selected Bidder are specified in the bidding document and/ or contract.
- b) The Contract for the supply can be repudiated at any time by the Purchase Officer, if the supplies are not made to his satisfaction after giving an opportunity to the Selected Bidder of being heard and recording the reasons for repudiation.
- c) The Supplier/ Selected Bidder shall arrange to supply, install and commission the ordered materials/ system as per specifications within the specified delivery/ completion period at various departments and/ or their offices/ locations mentioned in the LoI/ PO/WO.
- d) Shifting the place of Installation: The user will be free to shift the place of installation within the

same city /town/ district/ division. The successful / Selected Bidder shall provide all assistance, except transportation, in shifting of the equipment. However, if the city/town is changed, additional charges of assistance in shifting and providing maintenance services for remaining period would be decided mutually.

6.11 Supplier's/ Selected Bidder's Responsibilities- The supplier / Selected Bidder shall supply all the services, goods and related services included in the scope of supply in accordance with the provisions of bidding document and/ or contract.

6.12 Purchaser's Responsibilities-

- a) Whenever the supply of services, goods and related services requires that the Supplier / Selected Bidder obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier/ Selected Bidder, make its best effort to assist the Supplier/ Selected Bidder in complying with such requirements in a timely and expeditious manner.
- b) The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the general conditions of the contract.

6.13 Contract Price-

- a) The Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- b) Prices charged by the Supplier/ Selected Bidder for the services delivered, Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.

6.14 Recoveries from Supplier/ Selected Bidders-

- a) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills.
- b) The Purchase Officer shall withhold amount to the extent of short supply, broken/damaged or for rejected articles unless these are replaced satisfactorily. In case of failure to withhold the amount, it shall be recovered from his dues and performance security deposit available under this contract with tendering authority/ RISL.
- c) The balance, if any, shall be demanded from the Supplier/ Selected Bidder and when recovery is not possible, the Purchase Officer shall take recourse to law in force.

6.15 Taxes & Duties-

- a) The TDS, etc., if applicable, shall be deducted at source/ paid by RISL as per prevailing rates. All other taxes, duties, license fee and levies shall be included in the bid price excluding GST.
- b) For goods supplied from outside India, the successful/ Selected Bidder shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- c) For goods supplied from within India, the successful/ Selected Bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

6.16 Copyright/ Intellectual Property Rights (IPR)- The copyright/ IPR in all drawings, source code design documents, and other materials containing data and information furnished to the Purchaser that has been developed/ customized by the Selected Bidder for the project herein shall remain vested in the Purchaser.

6.17 Confidential Information-

- a) The Purchaser and the Supplier/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
- b) The Supplier/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents,

- data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier/ Selected Bidder shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier/ Selected Bidder
- c) The Purchaser shall not use such documents, data, and other information received from the Supplier/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Supplier/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
 - d) The obligation of a party under sub-clauses above, however, shall not apply to information that: -
 - i. the Purchaser or Supplier / Selected Bidder need to share with RISL or other institutions participating in the Contract;
 - ii. now or hereafter enters the public domain through no fault of that party;
 - iii. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - iv. otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
 - e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
 - f) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.
- 6.18 Subcontracting:** The Selected Bidder may assign or sub-let his contract or any substantial part thereof to any other agency as per provisions of RTTP Act & Rules.
- 6.19 Specifications and Standards-**
- a) All articles supplied shall strictly conform to the specifications, trademark laid down in the tender form and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conform to the specifications shall be final and binding on the supplier / Selected Bidder.
 - b) Technical Specifications and Drawings-
 - i. The Supplier/ Selected Bidder shall ensure that the services, goods and related services comply with the technical specifications and other provisions of the Contract.
 - ii. The Supplier/ Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - iii. The services, goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods/Services.
 - c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.
 - d) The supplier/ Selected Bidder must certify that all the goods are new, unused, and of the agreed make and models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
 - e) The supplier/ Selected Bidder should further warrant that the Goods shall be free from defects arising from any act or omission of the supplier/ Selected Bidder or arising from design, materials,

and workmanship, under normal use in the conditions prevailing in the place of final destination.

6.20 Packing and Documents-

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

6.21 Insurance-

- a) The Goods supplied under the Contract shall be fully insured against loss by theft, destruction or damage incidental to manufacture or acquisition, transportation, storage, fire, flood, under exposure to weather and delivery at the designated project locations, in accordance with the applicable terms. The insurance charges will be borne by the supplier and Purchaser will not be required to pay such charges if incurred.
- b) The goods will be delivered at the FOR destination in perfect condition.

6.22 Transportation-

- a) The supplier/ Selected Bidder shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the Selected Bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.
- b) All goods must be sent freight paid through Railways or goods transport. If goods are sent freight to pay, the freight together with departmental charge @5% of the freight will be recovered from the supplier's/ Selected Bidder's bill.

6.23 Inspection-

- a) The Purchase Officer or his duly authorized representative shall at all reasonable time have access to the suppliers / Selected Bidder's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided.
- b) The supplier / Selected Bidder shall furnish complete address of the premises of his factory, office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose.
- c) After successful inspection it will be supplier's / Selected Bidder's responsibility to dispatch and install the equipment at respective locations without any financial liability to the Purchaser. However, supplies when received at respective locations shall be subject to inspection to ensure whether they conform to the specification.

6.24 Samples

- a) If notified by the Purchaser to the supplier/ bidder/ selected bidder, Bids for articles/ goods marked in the BoM shall be accompanied by one set of samples of the articles quoted properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples if sent by train, etc., should be despatched freight paid and the R/R or G.R. should be sent under a separate registered cover. Samples for catering/ food items should be given in a plastic box or in polythene bags at the cost of the bidder.
- b) Each sample shall be marked suitably either by written on the sample or on a slip of durable

paper securely fastened to the sample, the name of the bidder and serial number of the item, of which it is a sample in the schedule.

- c) Approved samples would be retained free of cost upto the period of six months after the expiry of the contract. RISL shall not be responsible for any damage, wear and tear or loss during testing, examination, etc., during the period these samples are retained. The Samples shall be collected by the supplier/ bidder/ selected bidder on the expiry of stipulated period. RISL shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by RISL and no claim for their cost, etc., shall be entertained.
- d) Samples not approved shall be collected by the unsuccessful bidder. RISL will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
- e) Supplies when received maybe subject to inspection to ensure whether they conform to the specifications or with the approved samples. Where necessary or prescribed or practical, tests shall be carried out in Government laboratories, reputed testing house like STQC (ETDC) and the like and the supplies will be accepted only when the articles conform to the standard of prescribed specifications as a result of such tests.
- f) The supplier/ selected bidder shall at its own expense and at no cost to the Purchaser carry out all such tests and/ or inspections of the Goods and Related Services as are specified in the bidding document.

6.25 Drawl of Samples- In case of tests, wherever feasible, samples shall be drawn in one set in the presence of selected bidder or his authorised representative and properly sealed in their presence. Once such set shall be given to them, one or two will be sent to the laboratories and/or testing house and the third or fourth will be retained in the office for reference and record.

6.26 Testing charges- In case RISL gets the testing of software solution done by third party, cost towards the same shall be borne by supplier.

6.27 Rejection-

- a) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the Selected Bidder at his own cost within the time fixed by the Purchase Officer.
- b) If, however, due to exigencies of RISL work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the Selected Bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the Selected Bidder within 15 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the supplier's/ Selected Bidder's risk and on his account.

6.28 Freight

- a) All goods must be sent freight paid through Railways or goods transport. If goods are sent freight to pay the freight together with the departmental charge 5% of the freight will be recovered from the suppliers bill.
- b) R.R. should be sent under registered cover through Bank only.
- c) In case supply is desired to be sent by the purchase officer by passenger train, the entire railway freight will be borne by the bidder.
- d) Remittance charges on payment made shall be borne by the bidder.

6.29 Extension in Delivery Period and Liquidated Damages (LD)-

- a) Except as provided under clause "Force Majeure", if the Supplier/ Selected Bidder fails to deliver any or all of the Services or Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage

- specified in (d) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or contract. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause "Termination".
- b) The time specified for delivery in the bidding document shall be deemed to be the essence of the contract and the supplier/ Selected Bidder shall arrange services, goods supply and related services within the specified period.
 - c) Delivery and installation / completion period may be extended with or without liquidated damages if the delay in the supply of goods or services is on account of hindrances beyond the control of the supplier/ Selected Bidder.
 - d) The supplier/ Selected Bidder shall request in writing to the Purchaser giving reasons for extending the delivery period of service if he finds himself unable to complete the supply of goods or services within the stipulated delivery period or is unable to maintain prorate progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and services after which such request shall not be entertained.
 - e) The Purchaser shall examine the justification of causes of hindrance in the delivery of goods and services and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.
 - f) Normally, extension in delivery period of goods and services in following circumstances may be considered without liquidated damages:
 - i. When delay has occurred due to delay in supply of drawings, designs, plans etc. if the RISL was required to supply them to the supplier of goods or service provider as per terms of the contract.
 - ii. When delay has occurred in supply of materials etc. if these were required to be supplied to the supplier or service provider by the RISL as per terms of the contract.
 - g) If the competent authority agrees to extend the delivery period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.
 - h) It shall be at the discretion of the concerned authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.
 - i) If RISL are in need of the good and/ or service rendered after expiry of the stipulated delivery period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.
 - j) In case of extension in the delivery of services and/ or installation/ completion period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods and/ or service which the supplier/ selected has failed to supply or complete: -

No.	Condition	LD %*
a.	Delay up to one fourth period of the prescribed period of delivery, successful installation and completion of work	2.5 %
b.	Delay exceeding one fourth but not exceeding half of the prescribed period of delivery, successful installation and completion of work	5.0 %
c.	Delay exceeding half but not exceeding three fourth of the prescribed period of delivery, successful installation and completion of work	7.5 %
d.	Delay exceeding three fourth of the prescribed period of delivery, successful	10.0 %

	installation and completion of work	
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- Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated if it is less than half a day.
- The maximum amount of liquidated damages shall be 10% of total value of the items to be supplied in the particular phase.

* The percentage of LD is applicable on the payment due for a particular milestone.

6.30 Authenticity of Equipments / Software-

- a) The Selected Bidder shall certify (as per Annexure-17) that the supplied goods and services conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- b) If during the contract period, the said goods/ services be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Officer in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods/services, the purchaser will be entitled to reject the said goods/services or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods/services will be at the Selected Bidder's risk and all the provisions relating to rejection of goods/services etc., shall apply. The Selected Bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Purchase Officer, otherwise the Selected Bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Officer in that behalf under this contract or otherwise.
- c) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of this clause of the contract.

6.31 Warranty/Support/ ATS-

- a) The Selected Bidder must supply all equipments with comprehensive on-site warranty/ support/ ATS valid for the period as specified in Annexure-1-6 of this RFP after the goods or services, or any portion thereof as the case may be, have been delivered to, installed and accepted at the final destination(s) indicated in the bidding document.
- b) The purchaser shall give a written notice to the Selected Bidder stating the nature of any defect together with all available evidence thereof, promptly following the discovery thereof. The purchaser shall afford all reasonable opportunity for the Selected Bidder to inspect such defects. Upon receipt of such notice, the Selected Bidder shall expeditiously cause to repair the defects, at no cost to the Purchaser.
- c) If having been notified, the Selected Bidder fails to remedy the defect within the period specified, the purchaser may proceed to take within a reasonable period such remedial action as may be necessary, in addition to other recourses available in terms and conditions of the contract and bidding document.
- d) During the warranty/ support/ ATS period, the Selected Bidder shall also be responsible to ensure adequate and timely availability of spare parts/ components/ plug-ins needed for repairing the supplied goods.
- e) The warranty on supplied software media, if any, should be at least for the project duration.

6.32 Patent Indemnity-

- a) The Supplier / Selected Bidder shall, subject to the Purchaser's compliance with sub-clause (b) below, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: -
 - i. the installation of the Goods/ delivery of service by the Supplier/ Selected Bidder or the use of

- the Goods/ services in the country where the Site is located; and
- ii. the sale in any country of the products produced by the Goods.
 - iii. Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier/ Selected Bidder, pursuant to the Contract.
 - iv. If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to above, the Purchaser shall promptly give the Supplier/ Selected Bidder a notice thereof, and the Supplier/ Selected Bidder may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- b) If the Supplier/ Selected Bidder fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
 - c) The Purchaser shall, at the Supplier's/ Selected Bidder's request, afford all available assistance to the Supplier / Selected Bidder in conducting such proceedings or claim, and shall be reimbursed by the Supplier/ Selected Bidder for all reasonable expenses incurred in so doing.
 - d) The Purchaser shall indemnify and hold harmless the Supplier/ Selected Bidder and its employees, officers, and Subcontractors (if any) from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier/ Selected Bidder may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

6.33 Limitation of Liability- Except in cases of gross negligence or wilful misconduct:

- a) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier/ Selected Bidder to pay liquidated damages to the Purchaser; and
- b) the aggregate liability of the Supplier/ Selected Bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Supplier/ Selected Bidder to indemnify the Purchaser with respect to patent infringement.

6.34 Change in Laws & Regulations- Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Rajasthan/ India, where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/ or the Contract Price, then such Delivery Date and/ or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable.

6.35 Force Majeure-

- a) The Supplier/ Selected Bidder shall not be liable for forfeiture of its Performance Security deposit, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- b) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier/ Selected Bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier/ Selected Bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a Force Majeure situation arises, the supplier/ Selected Bidder shall promptly notify RISL in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by RISL, the supplier/ Selected Bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- d) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- e) In case a Force Majeure situation occurs with the RISL, RISL may take the case with the contractor on similar lines.

6.36 Change Orders and Contract Amendments-

- a) The Purchaser may at any time order the Supplier/ Selected Bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -
 - i. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - ii. the method of shipment or packing;
 - iii. the place of delivery; and
 - iv. New functionality / modification to be added after UAT has been done.
 - v. the Related Services to be provided by the Supplier/ Selected Bidder.
- b) If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's/ Selected Bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the Supplier/ Selected Bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's/ Selected Bidder's receipt of the Purchaser's change order.
- c) In case, a new functionality/ modification is done, Selected Bidder shall identify the effort (in man-month) required for making the change(s). Rates for the man month shall be the composite man-month rates quoted by the Selected Bidder in the financial bid. Changes shall however be done by the Selected Bidder after approval of effort estimates by RISL.
- d) Prices to be charged by the Supplier/ Selected Bidder for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier/ Selected Bidder for similar services.

6.37 Termination-

a) Termination for Default-

- i. The tender sanctioning authority of RISL may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier / Selected Bidder, terminate the contract in whole or in part: -
 - a. If the supplier / Selected Bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by RISL; or
 - b. If the supplier / Selected Bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
 - c. If the supplier / Selected Bidder, in the judgment of the Procuring Authority has engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
 - d. If the supplier / Selected Bidder commits breach of any condition of the contract.

- ii. If RISL terminates the contract in whole or in part.
 - a. Amount of performance security deposit may be forfeited.
 - b. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.
- b) **Termination for Insolvency:** RISL may at any time terminate the Contract by giving a written Notice of at least 30 days to the supplier / Selected Bidder if the supplier / Selected Bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier / Selected Bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to RISL.
- c) **Termination for Convenience/ Foreclosure-**
 - i. RISL, by a written Notice of at least 30 days sent to the supplier / Selected Bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier/ Selected Bidder under the Contract is terminated, and the date upon which such termination becomes effective.
 - ii. Depending on merits of the case the Supplier / Selected Bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
 - iii. The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier/ Selected Bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - iv. To have any portion completed and delivered at the Contract terms and prices; and/or
 - v. To cancel the remainder and pay to the Supplier/ Selected Bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier / Selected Bidder.

6.38 Settlement of Disputes-

General: If any dispute arises between the supplier/ selected bidder and RISL during the execution of a contract that should be amicably settled by mutual discussions. However, if the dispute is not settled by mutual discussions, a written representation will be obtained from the supplier/ selected bidder on the points of dispute. The representation so received shall be examined by the concerned Procurement Committee which sanctioned the tender. The Procurement Committee may take legal advice of a counsel and then examine the representation. The supplier/ selected bidder will also be given an opportunity of being heard. The Committee will take a decision on the representation and convey it in writing to the supplier/ selected bidder.

6.39 Verification of Eligibility Documents by RISL –

RISL reserves the right to verify all statements, information and documents submitted by the bidder in response to tender document. The bidder shall, when so required by RISL, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of verification by RISL shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of RISL thereunder. If any statement, information and document submitted by the bidder is found to be false, manipulated or forged during verification process, strict action shall be taken as per RTPP Act 2012.

6.40 Risk & Title –

All title, risk and ownership of the assets is to be transferred to RISL or its nominated agencies on the day of the successful delivery/ installation/ commissioning, whichever is earlier of the supplied items. All expenses occurred during transfer of title ship of assets shall be borne by the selected bidder/authorized partner.

7. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

1) Payment Terms and Schedule-

a) Payment Schedule - Payments to the bidder, after successful completion of the target milestones (including specified project deliverables), would be made as under: -

Srl	Milestone	Deliverable	Timelines	Payment
1	Supply, Arrange & Installation of Lab Equipment's as given in work order as per the scope of work	Supply & Installation Report to be duly signed by competent authority or the incubation center in-charge.	T0= Tw + 45 for 8 Incubation centers and T0=Tw+60 days for iStart School and District Incubators (College)	85% of Package A i.e. the cost of "Supply & Installation of Lab Equipment's" will be paid after installation of equipment's as per timelines
2.	O&M, Manpower Cost for 8 Incubator	- Quarterly satisfaction report duly signed by competent authority or the incubation center in-charge along with Monthly attendance Report & MPR. (Format to be shared along with work order) - Successful completion certificate, duly verified, of training along with feedback of each student.	Quarterly	1.5% of the cost of "Supply & Installation of Lab Equipment's" will be paid after installation of equipment's as per timelines (Package A) + Quarterly man power cost(Instructor)equally divided in 8 quarterly installments. (Package B) + Training Cost (LMS) equally divided in 8 quarterly installments. (Package C)
3	At the time of completion of project	Final Completion report duly signed by designated authority and final impact report in 30 printed copies.	At the time of completion of project Tw+24 Month	Remaining 3% of "Supply & Installation of Lab Equipment's" will be paid after installation of equipment's as per timelines (Package A)

Note: Tw is the date of providing the work order

- All payments would be made on actual basis i.e. quantities of items installed, manpower supplied, logistic support provided for different activities
- The supplier's/ selected bidder's request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- Due payments shall be made promptly by the purchaser, generally within sixty (60) days after submission of an invoice or request for payment by the supplier/ selected bidder
- The currency or currencies in which payments shall be made to the supplier/ selected bidder under this Contract shall be Indian Rupees (INR) only.

- f) All remittance charges will be borne by the supplier/ selected bidder.
- g) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- h) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- i) Any penalties and/or liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective deliverables
- j) Taxes, as applicable, will be deducted/paid as per the prevalent rules and regulations.

2) Service Level Standards/ Requirements/ Agreement:

- a) **Absence of Onsite Instructor/Manpower/Resource:** A Maximum of 16 leaves per year shall be allowed for resource deployed onsite at tinkering lab of Incubation Centers (4 leaves per quarter). The leave shall be availed only after due approval of the competent authority. The leaves not availed during any quarter shall not be carried forward.
 - In case total number of leaves exceed the maximum allowed leaves, even if approved, in a particular quarter, a penalty of Rs. 500 per day shall be levied on the selected bidder for Tinkering Lab Manpower respectively.
 - If person remain absent continuously for more than 7 days without prior intimation/approval a penalty of INR 2000 per day per resource will be levied. In the event of resource replacement, the selected bidder shall submit HR undertaking verifying the credentials of the new resource as per the RFP requirement along with bills. The replacement shall be intimated immediately to the concern incubator incharge.
 - Deployment of the resources should be within 15 days from the issuance of work order. Delay in the deployment of the resources/ Instructor, a penalty of INR 2000 per day per resource/Instructor will be levied.
- b) **Penalty of non-conduct of training:** As per the scope of work one training is to be conducted per month, that is total 192 training are to be conducted at all 8 locations during the whole tenure of the project. If the bidder misses or does not conduct a training for a particular month the location wise SLA will be as per under:
 - No payment for that particular training.
 - A penalty of Amount equivalent to 1 training cost.
 - Subsequently if the bidder continues to default for the next 2 months consecutively then a penalty of 2x the cost of missed training.
- c) Penalty for not adhering to the service levels should not exceed more than 10% of the total applicable quarterly payment & if the value of penalty reaches 10% or higher of the total applicable payment in any quarter, a notice shall be issued. If two such notices are issued during a year for any item or if the tendering authority feels that SI is not performing as per requirement, then tendering authority may terminate the contract including forfeiture of the PSD and may also debar the SI from bidding (for all types and form of bids) for at least three years in RISL.
- 3) **Change Requests/ Management:**
 - a) All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of RISL. In the event that the consent of RISL is not received then the change will not be carried out.
 - b) If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, equitable adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30 (thirty) days from the date of SI receiving the RISL change order which shall not be unreasonably withheld or delayed.



Annexure-1: Equipment for iStart School launchpads

Srl	Equipment	Specification	Qty	No. of Labs	Warranty required	Years of Warranty	Compliance to specification Yes/No (to be filled by bidder)
1	Arduino UNO with Uploading Cable	ATmega328P - 8-bit AVR family microcontroller. Digital I/O Pins: 14 (of which 6 provide PWM output). PWM Digital I/O Pins: 6	3	33	No	NA	
2	ESP8266 with Uploading Cable	Microcontroller programming boards having ESP8266 Architecture to have server-client communication, powered by 5V	3	33	No	NA	
3	AI Kit	• Smart Microcontroller Board: Kid-friendly and programmable using Python or block coding platforms. • AI Camera Module: Supports face detection, object tracking, and QR code recognition. • Sensors: Includes ultrasonic, infrared, light, sound, and color sensors for interactive learning. • Actuators: Motors, buzzers, and servos to build robots and automation projects. • Display Units: LCD or OLED screens to show messages, sensor data, or visual feedback. • Power Supply: Rechargeable battery or USB-powered with optional external power bank support. • Connectivity: Wi-Fi or Bluetooth modules for remote control and IoT integration. • Software & Programming • Visual Programming Interface: Drag-and-drop block coding for beginners. • Script Coding Support: Python and C++ for advanced learners. • Mobile App Integration: Dedicated app with child-friendly UI for AI tasks like face tracking, color detection, and line following. • Outcomes would be ➤ Face Detection & Tracking ➤ Object Recognition & Tracking ➤ Color Detection ➤ QR Code Scanning ➤ Tag Recognition ➤ Line Follower Robot	2	33	No	NA	

		➤ Voice Interaction (if microphone included) BIS Certification required.					
4	Buzzer	Active Buzzer 5V Small	5	33	No	NA	
5	Red, Green, Yellow LED	5mm, 3-5 volt	120	33	No	NA	
6	RGB LED	5mm, 3-5 volt	30	33	No	NA	
7	9-12V 2000 to 2500 mAh Rechargeable	9-12V 2000 to 2500 mAh Rechargeable	10	33	No	NA	
8	9V Battery charger	9V Battery charger	2	33	No	NA	
9	Bluetooth (HC-05)	HC 05 working voltage 5V	3	33	No	NA	
10	PH paper strips	PH 1-14 Alkaline Test Paper Litmus Strips Water Soil Test Kit	10	33	No	NA	
11	Water Pump	Submersible Mini Water Pump - 3-6V DC	3	33	No	NA	
12	IR Sensor	IR Sensor	5	33	No	NA	
13	Analog LDR Sensor	Photosensitive Light Sensor Module	5	33	No	NA	
14	Color Sensor	Color Sensor (TCS3200)	2	33	No	NA	
15	Water Level Sensor	Rain drop Sensor Module with wide voltage LM393 comparator	3	33	No	NA	
16	Air/Water Flow Sensor	Water Flow Measurement Sensor with 1-30 Liter/min Flow Rate	2	33	No	NA	
17	Analog PH Meter	SEN0161 PH Meter	1	33	No	NA	
18	Vibration Sensor	Vibration Sensor Module with Comparator LM393	2	33	No	NA	
19	Soil Moisture Sensor	FC-28 with LM293 comparator Operating Voltage: 3.3V to 5V	2	33	No	NA	
20	MQ series of Gas Sensor	Air Quality Gas Sensor	2	33	No	NA	
21	Barometric Pressure Sensor	BMP280 Barometric Sensor Module 3.3V / 5V	2	33	No	NA	
22	DHT11 Humidity and Temperature	DHT 11 (Humidity Sensor)	3	33	No	NA	
23	Relay Module	1-channel 5V control Single-Pole Double-Throw (SPDT) High-level trigger AC power relay board	2	33	No	NA	
24	Ultrasonic Distance Sensor	Working Frequency -40Hz Range 140Cm Measuring Angle -30degree	2	33	No	NA	
25	ACS712 5A Current Sensor	ACS712 5A Current Sensor	2	33	No	NA	
26	Twisted Wire (10 Meter)	Twisted Wire (10 Meter)	1	33	No	NA	
27	Resistor Kit	Resistor Set - Multiple quantities each 1E, 2E2, 4E7, 10E, 22E, 33E, 68E, 100E, 150E, 10K, 22K, 33K, 47K, 68K, 100K, 220K, 330K, 1M, 220E, 330E, 470E, 560E, 680E 1K, 2K2, 3K3, 4K7, 6K8 etc	3	33	No	NA	



Final RFP for Tinkering Labs (after pre-bid)

28	Breadboard	Breadboard	5	33	No	NA	
29	USB Cables A to B (12 inches)	USB Cable Set(A to B, 12 inch or More)	10	33	No	NA	
30	Jumper Cable Male-Male	Jumper Cable Male-Male	10	33	No	NA	
31	Jumper Cable Male-Female	Jumper Cable Male-Female	10	33	No	NA	
32	Jumper Cable Female-Female	Jumper Cable Female-Female	10	33	No	NA	
33	Hookup Wires (RED)	Single Core Red Wire 90 Meters each	1	33	No	NA	
34	Hookup Wires (Black)	Single Core Black Wire 90 Meters each	1	33	NO		
34	Digital Multimeter	Digital Multimeter Voltage Current Resistance- 7fxn + 19 ranges to cover DC Voltage 200mV to 1KV AC Voltage 200V-750V DC Current 200 μ A-10A Resistance 200 - 2M Ohm	1	33	No	NA	
35	DIY Telescope	- The kit should have mdf/ wood/ plastic sheets/material to build a functional telescope with parts like optical tube, tripod, eyepiece, mount, lens hole, etc. Specification: - 300mm Focal length - The kit should include accessories like convex & concave lens, rubber bands, sandpaper, etc. - The kit should have Booklet for step-by-step building instructions. The kit must be DIY mechanical kit with no battery & electronics.	1	33	NO	NA	

Annexure-2: Software for iStart School Launchpads, iStart College & Incubation Centers

Sr. No.	Type	Activity	Learning Outcomes	No. of Labs	Warranty required	Years of Warranty	Compliance to specification Yes/No (to be filled by bidder)
1	AI & ML Activities with Visual Programming Software	AI Quiz Master	1. Practice formulating quiz questions on academic topics. 2. Learn about user inputs and outputs in programming. 3. Understand how AI generates speech from text.	33	No	NA	
2		Interactive Storytelling	1. Create multiple sprites and make them communicate on user's text inputs. 2. Develop logical thinking by coding character interactions. 3. Understand the basics of speech synthesis.	33	No	NA	
3		Product Scanner	1. Learn the role of QR codes in retail and information sharing. 2. Understand how QR codes store and retrieve data. 3. Develop an application for real-world use.	33	No	NA	
4		Travel Guide	1. Create your QR codes for places to visit on vacations. 2. Learn how QR codes enhance user experience in tourism. 3. Understand the integration of information and QR codes.	33	No	NA	
5		Reaction Game	1. Learn how video sensing can be used in interactive games. 2. Understand the role of AI in detecting user	33	No	NA	

			reactions. 3. Develop a fun, interactive way to explore coding principles.				
6		Face-Based Character Control	1. Understanding the integration of AI with game development. 2. Learning about human-computer interaction. 3. Exploring how AI is applied in entertainment industries.	33	No	NA	
7		Gesture Control Game	1. Understanding gesture-based controls in human-computer interaction. 2. Learning how AI can enhance user experiences in gaming. 3. Exploring gesture recognition and its applications in entertainment.	33	No	NA	
8		Virtual AI Drawing Board	1. Exploring AI in creative applications. 2. Understanding how AI recognizes hand gestures to interact with virtual objects. 3. Learning about motion tracking and visual outputs.	33	No	NA	
9		Waste Sorting	1. Understand the different types of waste and their classifications. 2. Learn about the environmental impact of improper waste disposal. 3. Explore recycling processes.	33	No	NA	
10	Open Source Electronics	Color Mixing	RGB LED color Mixing	33	No	NA	
11		LDR sensor based Smart Street Light	LDR sensor based Smart Street Light	33	No	NA	
12		Number Counter	While loop	33	No	NA	
13		Bugler Alarm	About Sensors Digital/ Analog Sensors	33	No	NA	
14		Laser Security Alarm	Laser Security Alarm	33	No	NA	
15		IR sensor-based Person Counter	IR sensor-based Person Counter	33	No	NA	
16		Smart Night Lamp	Smart Night Lamp	33	No	NA	
17		Distance Calculator	Distance Calculator	33	No	NA	

18		Room Temperature and humidity Detector (Using DHT11 & LCD with I2C)	Monitor Humidity & Temperature with 16*2 LCD	33	No	NA	
19	CBSE Based Artificial Intelligence Activities	Waste Identification	Waste Identification	33	No	NA	
20		AI Water Waste Management System	AI Water Waste Management System	33	No	NA	
21		Image-based AI model to predict fire based system	Image-based AI model to predict fire based system	33	No	NA	
22		Design pH sensor for identifying acidic or basic nature of the soil	Design pH sensor for identifying acidic or basic nature of the soil	33	No	NA	
23		Plant Disease Detection	Plant Disease Detection	33	No	NA	
24		IR sensor-based production counter	IR sensor-based production counter	33	No	NA	
25		AI Food Stock System	AI Food Stock System	33	No	NA	
26		AI Smart Dispenser	AI Smart Dispenser	33	No	NA	
27	Mobile App Development	Introduction to Mobile app development (Music Player)	Install mit ai2 companion , barcode use, how to publish an app on mit app site, description of designer and block (Learn to design a Ui And Ux of selfie app (shake your phone to take a picture)	33	No	NA	
28		Paint App	build an app that lets you draw on the phone screen in different colors.	33	No	NA	
29		Fitness App (UI & UX)	Code a Fitness App (Exercises, Postures, Diet Plan, BMI Calculator)	33	No	NA	
30	Python Coding	Data Types	1. Create a simple BMI calculator, age calculator using Python data conversions and arithmetic operations	33	No	NA	
31		Built In Data Types in Python	1. Make your own list of the favourite destinations in the world. Learn	33	No	NA	

			concept of Python data Structures, list and tuples				
32		Unordered Data Types	1. Make a language translator with concept of Python dictionaries	33	No	NA	
33		Loops	1. About Loop 2. How to Use Loops In Python 3. About For & While Loop	33	No	NA	
34		Function In Python	1. How to define & call function in python	33	No	NA	
35		Weather Monitoring	1. Make graphical user interface for weather monitoring App 2. Add tkinter library to make gui of weather monitoring system 3. Add pillow library for Import Image 4. Make Graphical User Interface for Weather monitoring App 5. Add function for button command 6. Fetch the data form open weather api by web scraping	33	No	NA	
36	AI Kit	Face Recognition and Tracking Robot	Face Recognition and Tracking Robot	33	No	NA	
37		Object Recognition and Tracking Robot	Object Recognition and Tracking Robot	33	No	NA	
38		Color Tracker Robot	Color Tracker Robot	33	No	NA	
39		Tag Recognition Based Robot	Tag Recognition Based Robot	33	No	NA	
40		QR Code Recognition Based Robot	QR Code Recognition Based Robot	33	No	NA	

Annexure-3: Equipment's for iStart District incubator (iStart College Launchpads)

Srl	Type	Material	Specifications	Qty	No. of Labs	Warranty required	Years of Warranty	Compliance to specification Yes/No (to be filled by bidder)
1	Controller Board	Arduino UNO	ATmega328P - 8-bit AVR family microcontroller. Digital I/O Pins: 14 (of which 6 provide PWM output). PWM Digital I/O Pins.	5	32	NO	NA	
2		Arduino Nano	Arduino Nano	3	32	NO	NA	
3		Node MCU	Microcontroller programming boards having ESP8266 Architecture to have server-client communication, powered by 5V	3	32	NO	NA	
4	Sensor/Input	Potentiometer	10k Vertical PCB Preset Variable Resistor Trimmer Potentiometer	3	32	NO	NA	
5		Switches	One Kit Contains- 100 Buttons Of Diff Types: Push, Toggle, Rotary, Selector, & Slide Switch	3	32	NO	NA	
6		PH Strips	PH 1-14 Alkaline Test Paper Litmus Strips Water Soil Test Kit	3	32	NO	NA	
7		LDR Sensor Module	Photosensitive Light Sensor Module	2	32	NO	NA	
8		Ultrasonic Distance Sensor	Working Frequency ~40Hz Range 1 to 4Cm Measuring Angle ~30degree	2	32	NO	NA	
9		DHT11	DHT 11 (Humidity Sensor)	2	32	NO	NA	
10		IR Sensor	IR Sensor	2	32	NO	NA	
11		Bluetooth	HC 05 working voltage 5V	2	32	NO	NA	
12		Soil Moisture	FC-28 with LM293 Comparator	2	32	NO	NA	
13		MQ-2	MQ 2 Gas/Smoke sensor	2	32	NO	NA	
14		MQ-4	Methane Gas Sensor	2	32	NO	NA	
15		MQ-135	Air Quality Gas Sensor	2	32	NO	NA	
16		Vibration Sensor	Vibration Sensor Module with Comparator LM393	2	32	NO	NA	

17		Air/Water Flow Sensor	Water Flow Measurement Sensor with 1-30 Litre/min Flow Rate	2	32	NO	NA	
18		Color Sensor	Color Sensor (TCS3200)	2	32	NO	NA	
19		Barometric Pressure Sensor	BMP280 Barometric Sensor Module 3.3V / 5V	2	32	NO	NA	
20		Water Level Sensor	Water Level Depth Detection Sensor for Arduino	2	32	NO	NA	
21		Rain Drop Sensor	Rain drop Sensor Module with wide voltage LM393 comparator	2	32	NO	NA	
22		Analog PH Meter	SEN0161 PH Meter	2	32	NO	NA	
23		PIR Motion Sensor	PIR Motion Sensor Detector Module HC-SR501	2	32	NO	NA	
25	Output	Relay module	1-channel 5V control Single-Pole Double-Throw (SPDT) High trigger AC power relay board	2	32	NO	NA	
26		Current Sensor	ACS712 5A Current Sensor	2	32	NO	NA	
27		Buzzer	Active Buzzer 5V Small	10	32	NO	NA	
28		White LED	5mm, 3.5-volt	30	32	NO	NA	
29		Red LED	5mm, 3.5-volt	30	32	NO	NA	
30		Green LED	5mm, 3.5-volt	30	32	NO	NA	
31		RGB LED	5mm, 3.5-volt	30	32	NO	NA	
32		16x2 LCD Screen Shield with buttons	Dot Matrix LCD Display, 16 Characters X 2 lines, I2C	2	32	NO	NA	
33		BO Motor with wheel	BO Motor 150 RPM	10	32	NO	NA	
34		Motor Driver	L298N Motor Driver	5	32	NO	NA	
35		Servo Motor	Plastic Gear Servo Motor	5	32	NO	NA	
36		Motor Pump	Submersible Mini Water Pump - 3-6V DC	2	32	NO	NA	
37		Resistor Kit	Resistor Set - Multiple quantities each 1E, 2E2, 10E, 22E, 33E, 68E, 100E, 150E, 220E, 330E, 470E, 560E, 680E, 1K, 2K2, 3K3, 4K7, 6K8	5	32	NO	NA	
38		Multi Capacitor Box	Capacitor Set - Multiple Quantities each 2PF, 10PF, 15PF, 22PF, 33PF, 47PF,	5	32	NO	NA	

			68PF, 100PF, 104PF, 224PF, 334PF, 474PF, 684PF, 105PF					
39		Breadboard	Breadboard	5	32	NO	NA	
40	Misc	Male Berg Strip	1x40 Pin 2.54mm Pitch Male Berg Strip	5	32	NO	NA	
41		Female Berg Strip	1x40 Pin 2.54mm Pitch Female Berg Strip	5	32	NO	NA	
42		USB Cables A to B (12 inches)	USB Cable Set(A to B, 12 inch or More)	5	32	NO	NA	
43		USB Cables Mini (12 inches)	USB Cable Set(Mini, 12 inch or More)	5	32	NO	NA	
44		9 Volt Batteries	9-12V 2000 to 2500 mAh Rechargeable	3	32	NO	NA	
45		Power Bank	Power Bank 5V 10000mAh	3	32	NO	NA	
46		9V Battery Battery charger	9V Battery Battery charger	2	32	NO	NA	
47		Adapters 5v	DC Power Adapter With 5V,2A	3	32	NO	NA	
48		Jumper Cable	MM/ MF / FF (70 each)	210	32	NO	NA	
49		Electric Wire	Electric Wire 2 Core Twisted 10 Meter	1	32	NO	NA	
50		Hookup Wires (Black)	Single Core Red Wire 90 Meters each	1	32	NO	NA	
51		Hookup Wires (Red)	Single Core Black Wire 90 Meters each	1	32	NO	NA	
52		Digital Multimeter	Digital Multimeter Voltage Current Resistance-7fxn +19 ranges to cover DC Voltage 200mV to 1KV AC Voltage 200V -750V DC Current 200uA~10A Resistance 200~2M Ohm	2	32	NO	NA	
53		Hot Glue Gun	Hot Glue Gun	2	32	NO	NA	
53		Soldering Kit	Variable Wattage of Soldering iron:15-30 Watts/230V, Iron Temp Range:280°C to 450°C; De-Soldering Pump, Soldering Flux 100g, Solder Wick 1.5mm*2mm, Soldering Wire :20/22 AWG soldering Wire With rosin core	1	32	NO	NA	

			Flux(50g) BIS Certification required.					
54		Glue stick	Glue stick	15	32	NO	NA	
55	KIT	IoT Kit	IoT system design: From concept to deployment. Cloud integration: Sending and visualizing data remotely. Automation: Creating smart systems using sensor-actuator logic. Debugging and optimization: Identifying issues and improving performance. The kit should be reprogrammable & should offer opportunity to explore and innovate in the field of Cloud Computing and Internet. Kit should also be Mobile App Controlled (Android & iOS), with separate UI/UX for each project for which cardboard structures suppose to be included in the kit. The Kit should include utility-based cardboard structures to demonstrate Real World IoT Applications like: Smart Irrigation, Smart Home, Smart Alarm, Pet Feeder, Smart Dustbin, Liquid Dispenser, Smart Lamp, Air Guitar, Iron Man Hand, etc. Cardboard sheets should have matching numbers printed for easy intuitive structure building by children (e.g., matching 1 to 1, 2 to 2, etc.). The kit should be modular in such a way that all the functional components	2	32	NO	NA	

			can be connected via snap connectors like FRC, JST & USB Socket. The PCB boards must have handling protection like rubber/plastic costumes with openings for connection. The kit should have manuals/charts for step-by-step building instructions accompanied by detailed video curriculum for assembly covering STEM concepts in English & Hindi. (BIS Certification required.)					
56		Additional Cardboard Sheet	For IoT Kit	10	32	NO	NA	
57		AI Kit	The Programmable AI Kit should include an AI programmable microcontroller board. The Kit should include an in-built Camera with support for QVGA and VGA, LCD Display, Speaker, Micro SD Card Slot, onboard MEMS Microphone, and a Li-Ion battery, with the option to add an external power bank for extended operational time. It should include a shield compatible with the microcontroller to easily connect DC motors and additional sensors. The Kit must support Python & C++, allowing access to extensive AI and machine learning libraries. The Kit must have a 4-wheeled Mecanum-	2	32	NO	NA	



			based car structure. Students must be able to construct AI projects including Face Detection, Object Recognition and Tracking, Color Tracking, Tag Recognition, and QR Code Recognition. The Visual Programming Software must be compatible with the kit, and students should be able to code via both Block coding and Script Coding. Additionally, the kit must be supported with proprietary mobile application with separate UI/UX for AI based projects such as Face Tracking, QR Tracking, Color Detection, Object Detection, Tag Tracking and Line Follower Robot. (BIS Certification required.)					
58		Raspberry Pi	This kit features advanced hardware, including a 64-bit quad-core microprocessor, 1GB RAM, and Broadcom wireless communication for seamless connectivity. With 26 I/O ports, high-definition video processing capabilities, a Raspberry Pi-compatible camera and USB microphone, and a 32GB external SD card for storage, students can engage in hands-on AI projects. The kit also includes a 7-inch LCD screen for visual interaction and a LAN cable for easy programming in Python via a laptop or	1	32	NO	NA	

			PC. Students should be able to make real-time applications based on AI and ML including: Face or Gesture Recognition, Voice Recognition, Natural Language Processing, Chatbots (Text to Speech), Data Visualisation (Line Chart, Pivot Table). Learning outcomes: Rule Based Machine Algorithm, Supervised and Unsupervised Machine Learning, Python with Numpy, Panda, Matplotlib, etc.					
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Annexure 4: LMS/Software for iStart College & Incubation Centers

Sr .No.	Type	Activity	Learning Outcomes	No. of Labs	Warranty required	Years of Warranty	Compliance to specification Yes/No (to be filled by bidder)
1	Electronics + Coding	Color Mixer	1. About RGB LED Block 2. About PWM Pin & Analog Output 3. About Random Function 4. Use of Set & Delay Command in Programming	32	No	NA	
2		Touch sensor-based Piano	1. What is Sensor? 2. Difference between Digital & Analog Sensor 3. About Data Types 4. Serial Communication in Microcontroller	32	No	NA	
3		Smart Dustbin / Distance Calculator using Ultrasonic Sensor	1. About Sensor 2. About Conditional Statements for varying distance 3. Serial Communication In Microcontroller	32	No	NA	
4		LDR sensor based Smart Street Light	1. What is Loop? 2. Concept For Loop & While Loop 3. Control RGB Light Color & Intensity with Loop Coding 4. Create Led Pattern with While Loop	32	No	NA	
5		Room Temperature and humidity Detector (Using DHT11 & LCD with I2C)	Room Temperature and humidity Detector (Using DHT11 & LCD with I2C)	32	No	NA	
6		IR sensor-based Person Counter	1. About Sensor 2. About Conditional Statements for varying distance 3. Serial Communication In Microcontroller	32	No	NA	
7		Laser Security Alarm	1. About Sensor 2. About Conditional Statements for varying distance 3. Serial Communication	32	No	NA	

			In Microcontroller				
8	Automation/ Basic IOT	Smart Irrigation System	1. About Smart Irrigation System 2. Connection & Working of Moist Sensor 3. Logical Operator 4. Pump On/Off with Soil Moisture Threshold Value	32	No	NA	
9		Night Lamp	1. Control Lamp With Light Sensor 2. Conditional Programming	32	No	NA	
10		Smart Dispenser	1. Structure of Dispenser 2. Use & Application of Pump Motor Driver 3. Programming for Smart Dispenser 4. While Loop	32	No	NA	
11		Home Automation	1. About Relay 2. Appliance Control Using Relay	32	No	NA	
12		Gesture Controlling	1. About Gesture Sensor 2. Connection of Gesture Sensor 3. About I2C Communication 4. Take Reading Gesture Sensor Values	32	No	NA	
13	Advance IOT	Database Firebase	Database From Client Side Real Time Object Store	32	No	NA	
14		App using Firebase	Firebase Client in App Data Writing and Reading	32	No	NA	
15		Firebase Communication With CPU	1. Programming For Connection Establishment With Firebase to Get & Put Values	32	No	NA	
16		LED Blink	1. On/Off Led With Application	32	No	NA	
17		Cloud Based Security System	1. Fetch IR Values on Firebase & Mobile Application 1. Send Notification On Mobile If Someone Enter in House	32	No	NA	
18		Weather Station	1. Take the Reading of DHT22 Sensor 2. Display All the Weather Details	32	No	NA	
19		Weather App	1. UI Design for Weather Application 2. Programming for Humidity Sensor 3. Design UX for Weather	32	No	NA	

			Application 4. Learn How to Fetch Data from Sensor				
20	Python Coding	Data Types	1. Create a simple BMI calculator, age calculator using Python data conversions and arithmetic operations	32	No	NA	
21		Built In Data Types in Python	1. Make your own list of the favourite destinations in the world. Learn concept of Python data Structures, list and tuples	32	No	NA	
22		Unordered Data Types	1. Make a language translator with concept of Python dictionaries	32	No	NA	
23		Loops	1. About Loop 2. How to Use Loops In Python 3. About For & While Loop	32	No	NA	
24		Function In Python	1. How to define & call function in python	32	No	NA	
25		Python OOPs Concepts	1. Concept of OOPs Programming In Python 2. What is Class, Objects, Polymorphism, Encapsulation?	32	No	NA	
26	AI ML with IOT	AI Based Door Unlocking System	1. Image Recognition 2. UI of App 3. Hardware Connection of Servo Motor 4. UX Design for Real Time Face Recognition 5. Servo Motor Working On Different-Different Face ID	32	No	NA	
27		AI Gesture Led Brightness Controller	1. Gesture Recognition using Mediapipe Library 2. Hardware Connection 3. Develop System for Control Brightness of LED With Hand Gesture	32	No	NA	
28	Raspberry Pi	Introduction & Preparing Your Raspberry Pi for First Use	Different Models of Raspberry Pi Applications of Raspberry Pi. NOOBS OS inside out. Bootting for the First time.	32	No	NA	
29		Preparing Your Raspberry Pi for First Use	Different Operating Systems for Raspberry pi Getting Started With NOOBS Getting things ready for first use. NOOBS OS inside out. Bootting for the First time.	32	No	NA	

30		Getting Familiar with the GPIO Pins of your Pi & Hardware Control	Pin numbering Formats The Voltage hazard Information. The LED Interfacing The First Button Interface with Raspberry Pi General information on other pins and their functionality. UART example.	32	No	NA	
31		Sensor Interfacing	Temperature and Humidity Sensor (DHT11), Motion Sensing from Triple Axis Gyro Accelerometer Obstacle detection using Ultrasonic sensor, etc.	32	No	NA	
32		IoT Design using Raspberry Pi	IoT Applications based on Raspberry Pi, GPIO Control over Web Browser, Communicating data using on-board module, Home automation using Pi Node-RED, MQTT Protocol	32	No	NA	
33		Weather Station	Working of Humidity & Temperature Sensor Use & Installation of Libraries. Connection of Electronics Communicate All reading on Cloud Dashboard	32	No	NA	
34		Computer Vision with Raspberry pi	Installation of Opencv in Raspberry pi Compiling OpenCV Image Handling (Resizing & Resizing Frames), Drawing Shapes & putting Text, Image Transformation,	32	No	NA	
35		AI-Person Face Detector Robot	1.Deep Neural Network 2.Collect Image for to training dataset 3.How to Install TensorFlow & Keras Framework 4.Function of Keras and Tensorflow 5.Make a Machine Learning Model for Face Recognition 6.Use Face_recognition Model & Fit this model with train & test dataset for recognize the face of person	32	No	NA	



36	AI Kit	Face Recognition and Tracking Robot	Face Recognition and Tracking Robot	32	No	NA	
37		Object Recognition and Tracking Robot	Object Recognition and Tracking Robot	32	No	NA	
38		Color Tracker Robot	Color Tracker Robot	32	No	NA	
39		Tag Recognition Based Robot	Tag Recognition Based Robot	32	No	NA	
40		QR Code Recognition Based Robot	QR Code Recognition Based Robot	32	No	NA	

Annexure-5: List of Consumables for iStart Tinkering Lab

List Of Consumables in the Tinkering Lab							Compliance to specification Yes/No (to be filled by bidder)
Srl	Item	Type	Quantity/ Lab	No. of Labs	Warranty required	Years of Warranty	
1	AA/AAA batteries	Power & Connectors	20	8	No	NA	
2	Battery holders		5	8	No	NA	
3	9V batteries Rechargeable		10	8	No	NA	
4	Alligator clips		50	8	No	NA	
5	Male/female header pins		100	8	No	NA	
6	JST connectors		10	8	No	NA	
7	Jumper Wire		10	8	No	NA	
8	Resistors	Electronics & Robotics Components BIS Certification required for electronics equipment's	5 Kits	8	No	NA	
9	Capacitors		5 kits	8	No	NA	
10	RGB LEDs (Assorted colours)		100	8	No	NA	
11	Diodes		2 Kits	8	No	NA	
12	Transistors		2 Kits	8	No	NA	
13	Drone Propellers		20	8	No	NA	
14	Jumper wires(M-M,M-F, F-F)		60	8	No	NA	
15	Breadboards (disposable in classroom settings)		10	8	No	NA	
16	Potentiometers		1	8	No	NA	
17	DC motors		10	8	No	NA	
18	Vibration motors		5	8	No	NA	
19	Drone Batteries		5	8	No	NA	
20	Hot glue sticks	Craft & Assembly Materials	10	8	No	NA	
21	Tape (electrical, masking, duct, double-sided)		5	8	No	NA	
22	Solder wire		5 Set	8	No	NA	
23	Flux paste		1	8	No	NA	
24	Wire (solid & stranded, various gauges)		1 Set	8	No	NA	
25	Filaments	3D Printer	10 KG	8	No	NA	
26	Flashforge 3D Printer's Tools Sets		1 Set	8	No	NA	
27	Extruder tube		2	8	No	NA	
28	Platform Stickers		3	8	No	NA	

ANNEXURE-6: List of Equipments for Upgradation of Tinkering Lab at iStart Incubation center

List of Equipment required at the Tinkering Labs							Compliance to specification Yes/No (to be filled by bidder)
Srl	Name of Product/ Equipment	Specification	Total Qty	No. of Labs	Warranty Required	Years of Warranty	
1	Solar Panel 3v 150MA	0.45W 3V 150mA Mini Solar Panel (8×6 cm)	40	8	NO	NA	
2	9v CPU cooling fan	CPU Cooling Fan	24	8	NO	NA	
3	Encoder IC 74148	74HC148 8 to 3 Line Priority Encoder IC (74148 IC) DIP-16	40	8	NO	NA	
4	Decoder IC 74138	74LS138 3 to 8 Line Decoder IC (74138)	40	8	NO	NA	
5	Buzzer Mini	Piezo Electronic Buzzer Beep Alarm Bell Continuous Sound 3v-24v Buzzer	80	8	NO	NA	
6	Wire Cutter & plier	Combo tool, insulated handle, 6-inch	24	8	NO	NA	
7	Bluetooth Module HC-05	Bluetooth SPP, UART interface, 3.3V/5V compatible	40	8	NO	NA	
8	De-Soldering Pump	Manual spring-loaded, anti-static body	24	8	NO	NA	
9	Desoldering Wire	Copper braid, 2.0mm width, 1.5m length	24	8	NO	NA	
10	Rechargeable Battery 7.4 Volt with Connector	Rechargeable Battery 7.4 Volt with Connector	40	8	NO	NA	
11	Rechargeable Battery 11.1 Volt	11.1V Li-ion, 2200mAh	40	8	NO	NA	
12	Jumper Wire (M TO M , M TO F, F TO F)100 PCS EACH	Dupont Cable Set, 20cm length, flexible	2400	8	NO	NA	
13	Wifi Module ESP-01	ESP8266 chip, 2 GPIO, UART, 3.3V logic	40	8	NO	NA	
14	Mini 12V Water Pump with Pipe	DC 12V, 120L/H, submersible	40	8	NO	NA	
15	DHT 11 Sensor	Temp & Humidity, 0–50°C, 20–90% RH, digital output	80	8	NO	NA	
16	ESP-8266(NodeMCU)	ESP8266 SoC, 11 GPIO, USB, 3.3V logic	40	8	NO	NA	
17	ESP32 Devkit	ESP32-WROOM-32, dual-core, Wi-Fi + Bluetooth	40	8	NO	NA	
18	Gyro Sensor	MPU-6050, 3-axis Gyro + 3-axis Accelerometer	40	8	NO	NA	
19	Voice Recognition Module	Supports 80 commands, UART, 5V input	24	8	NO	NA	
20	ATmega8	Microprocessor IC for Micro Controller	24	8	NO	NA	
21	ATmega16	Microprocessor IC for Micro Controller	40	8	NO	NA	
22	Thermistor	Thermistor 100k NTC with 1 Meter Cable Temperature	24	8	NO	NA	



		Sensor					
23	Fingerprint Sensor	GROW-R305 fingerprint sensor/ R307 fingerprint sensor	24	8	NO	NA	
24	Servo Motor MG 995	Servo Motor MG 995	80	8	NO	NA	
25	Servo Motor MG 996	Servo Motor MG 996	80	8	NO	NA	
26	Servo MG - 90	Servo MG - 90	80	8	NO	NA	
27	Servo SG - 90	Servo SG - 90	80	8	NO	NA	
28	Stepper Driver - DRV8825	Stepper Driver - DRV8825	40	8	NO	NA	
29	Stepper Driver TP-6600	Stepper Driver TP-6600	40	8	NO	NA	
30	LED Red 5mm	LED Red 5mm	2000	8	NO	NA	
31	LED Green 5mm	LED Green 5mm	2000	8	NO	NA	
32	LED Blue 5mm	LED Blue 5mm	2000	8	NO	NA	
33	LED Yellow 5mm	LED Yellow 5mm	2000	8	NO	NA	
34	LED RGB 5mm	LED RGB 5mm	2000	8	NO	NA	
35	Hook up wire (Bundle)RED	Hook up wire (Bundle)	16	8	NO	NA	
	Hook Up Wire Bundle Black						
36	555 Timer IC	555 Timer IC	160	8	NO	NA	
37	IC Base 8 pins	IC Base 8 pins	80	8	NO	NA	
38	IC Base 14 pins	IC Base 14 pins	80	8	NO	NA	
39	IC Base 16 pins	IC Base 16 pins	80	8	NO	NA	
40	IC Base 28 pins	IC Base 28 pins	80	8	NO	NA	
41	IC Base 40 pins	IC Base 40 pins	80	8	NO	NA	
42	Heat Shrink 2mm (Meter)	Heat Shrink 2mm (Meter)	16	8	NO	NA	
43	Heat Shrink 3mm (Meter)	Heat Shrink 3mm (Meter)	16	8	NO	NA	
44	Heat Shrink 5mm (Meter)	Heat Shrink 5mm (Meter)	16	8	NO	NA	
45	Heat Shrink 10mm (Meter)	Heat Shrink 10mm (Meter)	16	8	NO	NA	
46	Shift Register – 74595	Shift Register – 74595	80	8	NO	NA	
47	PWM Generator/ Servo Tester	PWM Generator/ Servo Tester	24	8	NO	NA	
48	7 Segment LED display	7 Segment LED display	80	8	NO	NA	
49	Glue Sticks	Glue Stick for the Glue Gun	200	8	NO	NA	
50	L298N Driver	L298N Motor Driver	40	8	NO	NA	
51	L293D Driver	L293D Motor Driver	80	8	NO	NA	
52	16X2 LCD	16X2 LCD Display	80	8	NO	NA	
53	Soldering wire	Soldering wire	120(Set)	8	NO	NA	
54	Soldering flux (100 grm Bottles)	Soldering flux (100 grm Bottles)	40	8	NO	NA	
55	Arduino Nano	Microcontroller Boards	80	8	NO	NA	
56	Arduino Uno	Microcontroller Boards	40	8	NO	NA	
57	ESP32 Cam Module	Camera Module Compatible with Microcontrollers	16	8	NO	NA	
58	Touch Sensor	Touch Sensor	80	8	NO	NA	

59	Work Station table for Soldering 4x2 ft	4 x 2ft with iron legs. Table height 2.5ft Table top with two power sockets with switch. Desk top panel board pressed with a high pressure top laminate with PVC edge. Glides plastic levelling leg system to overcome floor unevenness.	8	8	NO	NA	
60	Battery Operated Drill Machine	BLACK+DECKER Battery Operated Drill Machine	8	8	NO	NA	
61	PLA Filament	PLA Filaments for 3D Printer	24	8	NO	NA	
62	ABS filament	ABS Filaments for 3D Printer	16	8	NO	NA	
63	Storage box for PLA	Moisture Free Storage Box	24	8	NO	NA	
64	3D Pen	3D Pen	24	8	NO	NA	
65	Basic Electronics DIY kit	The Kit should have circuit blocks covered by ABS moulded enclosure having magnetic snap feature that makes it simple to connect & build circuit combinations. The magnetic attraction between blocks should allow user to auto-connect the blocks with a little push. Circuit Blocks should include - Input Blocks - AND/NAND, OR/NOR Logic Gates, On/Off Switch, Moment Button, Dimmer Switch, Wave Generator Sensor Blocks - Light Sensor, Proximity Sensor, Sound Sensor, Moist Sensor, Magnetic Sensor, Motion Sensor, Tilt Sensor, Vibration Sensor - each sensor block should ideally provide both Inverting & Non-inverting output. Output blocks - LED, RGB LED, Buzzer, Music Block, Vibration Motor, Motor Block, Fan Block Additional Blocks - Copy Output, Copy Input and Power Block. Each Circuit Block should have 3 connecting sides/slots. The Kit should include structures made of cardboard/metal/mdf/plastic for building at least 20 different projects including	16	8	NO	NA	

		Smart Lamp, Table Fan, Torch, Obstacle Avoider Car, Pet Feeder, Merry Go Round, Blower, Buglar Alarm, etc. Kit should have assembly manual in form of Booklet/Chart. (BIS Certification required.)					
66	Mechanical (Modular) Construction Kit	The Kit Should be Programmable and powered by 5V power bank. The kit should include Wheels, DC Motor, Metal Gear Servo motor, L293D Motor Driver, Nuts, Bolt, and other accessories (Notch Plier, Mini Screw Driver, etc). Structures of Pine MDF for making functional models/projects should be included in the kit, focusing on building prototypes of real world Machines like Excavator, Crane, Dumping Truck, Roller, Forklift, Ball Shooter, Catapult. The minimum size of final constructed machine(s) should be 250x150x200mm (LxWxH). The kit should also have pre-installed Firmware, so that students can control the machines with Mobile App (Android & IOS) with separate UI/UX for each project for which structures are included in the kit. The kit should be modular in such a way that all the functional components can be connected via snap connectors like FRC, JST & USB. The PCB boards must have handling protection like rubber/plastic costumes with openings for connection. Kit should have assembly manual in form of Booklet/Chart and online assembly & programming videos in English & Hindi language. (BIS Certification required.)	24	8	NO	NA	
67	OLED Display	OLED Display	80	8	NO	NA	

68	ECG Sensor AD8232	ECG Sensor AD8233	24	8	NO	NA	
69	3D Printer Bed Original Flash forge Bed Sticker	3D Printer Bed Original Flash forge Bed Sticker	8	8	NO	NA	
70	3D Printer Tool Kit	3D Printer Tool Kit	16	8	NO	NA	
71	Automobile - DIY Kits	The Kit should have Multifunctional models like - Obstacle Avoider, Edge Detector, Ball Kicker, Hammer, Line Follower, Remote Car, etc. Structures of Pine MDF for making functional models/projects should be included in the kit. The Kit Should be Programmable and powered by 5V power bank. The kit should also have pre-installed Firmware, so that students can control the Robotic Car with Mobile App (Android & IOS) with separate UI/UX for each project. The minimum size of final constructed model should be 180x120x100mm (LxWxH). It should have sensors like Ultrasonic Sensor & IR Sensor for obstacle detection. The kit Should include servo motor, 150 RPM Motor, Bluetooth HC05/HM10 Bluetooth for communication, L293D Motor Driver, RGB LED, Buzzer, Notch Plier, Mini Screw Driver, etc. The PCB boards must have handling protection like rubber/plastic costumes with openings for connection. The kit should be modular in such a way that all the functional components can be connected via snap connectors like FRC, JST & USB. Kit should have assembly manual in form of Booklet/Chart and online assembly & programming videos in English & Hindi Language. (BIS Certification required.)	24	8	NO	NA	
72	Peg Board For Wall/Tool Storage	Peg board System to mount tools on wall with attachments	16	8	NO	NA	

		Size: 3*2 Size					
73	Stickers with Name and Tech Decoration	Stickers with Name and Tech Decoration	24	8	NO	NA	
74	Artificial Intelligence Based DIY Kits	The Programmable AI Kit should include an AI programmable microcontroller board. The Kit should include an in-built Camera with support for QVGA and VGA, LCD Display, Speaker, Micro SD Card Slot, onboard MEMS Microphone, and a Li-Ion battery, with the option to add an external power bank for extended operational time. It should include a shield compatible with the microcontroller to easily connect DC motors and additional sensors. The Kit must support Python & C++, allowing access to extensive AI and machine learning libraries. The Kit must have a 4-wheeled Mecanum-based car structure. Students must be able to construct AI projects including Face Detection, Object Recognition and Tracking, Colour Tracking, Tag Recognition, and QR Code Recognition. The Visual Programming Software must be compatible with the kit, and students should be able to code via both Block coding and Script Coding. Additionally, the kit must be supported with proprietary mobile application with separate UI/UX for AI based projects such as Face Tracking, QR Tracking, Color Detection, Object Detection, Tag Tracking and Line Follower Robot	8	8	NO	NA	
75	3D Printer Upgraded Version	Print Volume : 250 × 250 × 250 mm, Extruder, Single / Dual, Acceleration 20,000 mm/s² (600mm/sec), Machine Dimensions 400 × 410 × 490 mm, Extrusion System- Dual gear direct	8	8	NO	NA	

		drive extrusion , Hotend: Full metal, quick-detachable, Control Screen: 4.3-inch capacitive touch screen, Video Monitoring: Supported (480p resolution) Spaghetti recognition STL,OBJ,G-Code, OEM 3D Design software, 3D gallery, 3D printing curriculum and printing steam, All accessories i.e. cables, patch cords etc. Refer Annexure 18 for specification					
76	2 TB hard Disk /Hard Drive	SATA Interface, 2TB USB 3.0, External Hard Disk, Compatible with Laptop, Desktop, IFPD, Plug-in Installation with 3-year warranty.	8	8	NO	NA	
77	Electronics Screw Driver	BD40K4 4V 6.35mm Li-ion Cordless Screwdriver with E-Clutch and Intelligent Torque	8	8	NO	NA	
78	Solder Iron SMD	2 in 1 Hot Wind Gun Solder Iron SMD Rework Soldering Station Kit 700W/220V Tabletop (BIS Certification required.)	8	8	NO	NA	
79	Aerospace Kit	The kit should be a functional replica of space rover vehicle. It should be possible to make functional projects like Surveillance Radar, Obstacle avoider & Edge Detector. The kit should cover concepts like rocker bogie mechanism, 6 Wheel drive & Solar energy. The Kit Should be Programmable and powered by 5V power bank. The kit should also have pre-installed Firmware, so that children can control the Space Rover with Mobile App (Android & IOS) with separate UI/UX for each project. The minimum size of final constructed model should be 300x300x220 mm (LxWxH). The kit should include Wheels, DC Motor, Servo motor, L293D Motor Driver,	8	8	NO	NA	

		Bluetooth HC05/HM10 Bluetooth for communication, Nuts, Bolt, Solar panels, Ultrasonic Sensor and other accessories. The Kit should be modular in such a way that all the functional components can be connected via snap connectors like FRC, JST and USB. The PCB boards must have handling protection like rubber/plastic costumes with openings for connection. (BIS Certification required.)					
80	AgriTech Kit	The Kit should have microcontroller programming board having ESP8266 Architecture to have server-client communication, powered by 5V power bank, Light Sensor, Temperature-Humidity Sensor, Sonar Sensor, Moisture Sensor, Accelerometer/Gyro meter sensor and Relay Switch. (BIS certificate is required for the mentioned kit)	8	8	NO	NA	
81	Bio-tech Kit	The kit must include ECG Sensor Module, OLED, Pulse Rate Heart Sensor, Node MCU, Walking Cane, Weight Sensor, Ultrasonic sensor, 5v Buzzer, Pedometer. It should enable students to make projects like – Blind stick which makes sound on detecting obstacle, Wearable Heart Rate monitoring system, Remote ECG Monitoring, Smart Weighing Scale, etc. (BIS Certification required.)	24	8	NO	NA	
	GPS kit	The Kit should be Programmable and help children delve deeper into satellite technology. One should be able to explore real-time information about satellites in range, such as the total number of satellites, PRN numbers for identification, azimuth degrees indicating their positions, and signal strength	24	8	NO	NA	

		for accurate communication. The Kit should have GPS module, OLED Screen & microcontroller-based programming board having ESP8266 Architecture, PWM functionality, inbuilt Wi-Fi 802.11 b/g/n, powered by 5V power bank. The kit should have structure to build Projects like GPS Locator, over speed alarm, speedometer, smart watch, etc. The kit should be modular in such a way that all the functional components can be connected via FRC, JST & USB connectors. Kit should have assembly manual in form of Booklet/Chart. (BIS Certification required.)					
	AR/VR	For specification, please refer (Annexure-18)	8	8			
	CNC Mill	CNC milling machine (3-axis), ~300mm x 180mm x 45mm - Spindle Speed: 7000–12000 RPM, USB/Offline Controller facility, GRBL compatible - Material Support: Wood, Acrylic, PCB, Soft Metals (Aluminium), Emergency stop, enclosure required. (BIS Certification required.)	8	8			
	Laser Cutter	Desktop Con Laser Cutter, 40W – 60W (suitable for schools/labs), ~500mm x 300mm, Wood, Acrylic, Paper, Leather (not metal), Air Assist. - Safety: Protective casing, exhaust system, safety goggles are required. (BIS Certification required.)	8	8			
	Drone with Advanced Flight Controller	Quadcopter drone kit for learning & experimentation - Flight Controller: Pixhawk / Betaflight compatible - Features: GPS hold, Altitude hold, Return-to-home - Camera: Optional FPV/HD camera support - Flight Time: ~15–20 minutes - Range: ~1–2 km (line of sight) - Safety: Propeller guards,	8	8			

		failsafe return mode (BIS Certification required.)					
	Safety Equipment	Safety Glasses (Laser & CNC use) - Heat-resistant Gloves - Face Shield for machining work - Dust Masks/Respirators - First Aid Kit - Fire Extinguisher 1 KG Capacity	16	8			
	Raspberry Pi 4	Raspberry Pi 4 (4GB RAM recommended) Processor: Quad-core Cortex-A72 1.5GHz - Connectivity: Wi-Fi, Bluetooth, USB 3.0 -Storage: MicroSD card (32GB recommended) - Usage: Robotics, IoT, Programming (Python, Scratch) - Accessories: Power supply, HDMI cable, Case, Heat sinks	16	8			

**ANNEXURE-7: PRE-BID QUERIES FORMAT** {to be filled by the bidder}**Name of the Company/Firm:****NIB No.dated.**

Bidding Document Fee Receipt No..... Dated..... for Rs/-

Name of Person(s) Representing the Company/ Firm:

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

Company/Firm Contacts:

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

Query / Clarification Sought:

S.No.	RFP Page No.	RFP Rule No.	Rule Details	Query/ Clarification	Suggestion/

Note: - Queries must be strictly submitted only in the prescribed format (.XLS/ .XLSX/ .ODF). Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity. Also, kindly attach the coloured scanned copy of the receipt towards the submission of the bidding/ tender document fe



ANNEXURE-8: BIDDER'S AUTHORIZATION CERTIFICATE {to be filled by the bidder}

To,

{Procuring entity},

NIB No. & Date

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

Thanking you,

Name of the Bidder: -

Verified

Signature: Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

ANNEXURE-9: SELF-DECLARATION {to be filled by the bidder}

To,

{Procuring entity},

In response to the NIB Ref. No. _____ dated _____ for {Project Title}, as an Owner/Partner/ Director/ _____ Auth. Sign. of _____, I/ We hereby declare that presently our Company/ firm _____, at the time of bidding: -

- a) possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- b) have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- c) is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT
- d) does not have any previous transgressions with any entity in India or any other country during the last three years
- e) does not have any debarment by any other procuring entity
- f) is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- g) does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- h) does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- i) will comply with the code of integrity as specified in the bidding document.
- j) The LMS being quoted is owned/IPR exist with us and the link with **user credentials** are _____

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoR, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Name of the Bidder: -

Authorised Signatory: - Seal

of the Organization: - Date:

Place:



ANNEXURE-10: CERTIFICATE OF CONFORMITY/ NO DEVIATION

{to be filled by the bidder}

To,

{Procuring Entity},

CERTIFICATE

This is to certify that, the specifications of Software which I/ We have mentioned in the Technical bid, and which I/ We shall supply if I/ We am/ are awarded with the work, are in conformity with the minimum specifications of the bidding document and that there are no deviations of any kind from the requirement specifications.

Also, I/ we have thoroughly read the bidding document and by signing this certificate, we hereby submit our token of unconditional acceptance to all the terms & conditions of the bidding document without any deviations.

I/ We also certify that the price I/ we have quoted is inclusive of all the cost factors involved in the end-to-end implementation and execution of the project, to meet the desired Standards set out in the bidding Document.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:



Annexure-11: FINANCIAL BID COVER LETTER & FORMAT

(COVER LETTER {to be submitted by the bidder on his Letterhead})

To,

{Procuring Entity},

Reference: NIB No. : _____ Dated: _____

Dear Sir,

We, the undersigned bidder, having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as asked in the financial bid.

I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.

I / We agree to abide by this bid for a period of _____ days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

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

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized Signatory

Name:

Designation:

Annexure-12: Financial Bid Format For Tinkering lab Equipment (BOQ)

Srl	Equipment	Total Est. Qty	No. of Labs	Units	Unit Price Excluding GST	GST on Unit Price	Unit price including GST	Total Price Including GST
(A)	(B)	(C)	(D)	(E)	(F)	(G)	H=(F+G)	I=(H*C)
1	Arduino UNO with Uploading Cable	339	73	Nos.				
2	Arduino UNO(Microcontroller Boards)	80	8	Nos.				
3	Arduino Nano	320	73	Nos.				
4	Arduino Nano(Microcontroller Boards)	80	8	Nos.				
5	AI Kit for School Launchpads (Fsor Annexure 1)	66	33	Nos.				
6	Buzzer	645	73	Nos.				
7	Buzzer Mini	80	8	Nos.				
8	White LED 5mm	4280	73	Nos.				
9	Red LED 5mm	4280	73	Nos.				
10	Green LED 5mm	4280	73	Nos.				
11	RGB LED 5mm	3950	73	Nos.				
12	9V Battery charger	130	65	Nos.				
13	9-12V 2000 to 2500 mAh Rechargeable	330	65	Nos.				
14	Bluetooth (HC-05)	203	73	Nos.				
15	PH paper strips	650	65	Nos.				
16	Mini 12V Water Pump with Pipe	235	73	Nos.				
17	IR Sensor	229	65	Nos.				
18	Analog LDR Sensor	261	65	Nos.				
19	Color Sensor	130	65	Nos.				
20	Water Level Sensor	163	65	Nos.				
21	Air/Water Flow Sensor	130	65	Nos.				
22	Analog PH Meter	97	65	Nos.				
23	Vibration Sensor	210	73	Nos.				
24	Soil Moisture Sensor	130	65	Nos.				
25	MQ 2 series of Gas Sensor	130	65	Nos.				
26	Barometric Pressure Sensor	130	65	Nos.				
27	DHT11 Humidity and Temperature	243	73	Nos.				
28	Relay module	130	65	Nos.				
29	Ultrasonic Distance Sensor	130	65	Nos.				
30	ACS 712 5A Current Sensor	130	65	Nos.				
31	Twisted Wire (10 Meter)	33	33	Nos.				
32	Resistor Kit	259	65	Nos.				
33	Breadboard	325	65	Nos.				
34	USB Cables A to B (12 inches)	490	65	Nos.				
35	USB Cables Mini (12 inches)	160	65	Nos.				
36	Jumper Cable Male-Male	3530	73	Nos.				
37	Jumper Cable Male-Female	3530	73	Nos.				
38	Jumper Cable Female-Female	3530	73	Nos.				
39	Hookup Wires (Black) Bundle	81	73	Nos.				
40	Hookup Wires (Red) Bundle	81	73	Nos.				
41	Digital Multimeter	97	65	Nos.				
42	ESP8266 with Uploading Cable	96	65	Nos.				

43	DIY telescope	33	33	Nos.				
44	ESP-8266(NodeMCU)	360	40	Nos.				
45	Potentiometer	496	40	Nos.				
46	Switches	96	32	Nos.				
47	MQ135	64	32	Nos.				
48	MQ 4	64	32	Nos.				
49	MQ 5 series of Gas Sensor	64	32	Nos.				
50	Rain Drop Sensor	64	32	Nos.				
51	PIR Motion Sensor	64	32	Nos.				
52	16x2 LCD Screen Shield with buttons	144	40	Nos.				
53	BO Motor with wheel	320	32	Nos.				
54	Motor Driver	160	32	Nos.				
55	Servo Motor MG 995	112	40	Nos.				
56	Servo Motor MG 996	112	40	Nos.				
57	Servo MG – 90	112	40	Nos.				
58	Servo SG – 90	112	40	Nos.				
59	Motor Pump	64	32	Nos.				
60	Multi Capacitor Box	160	32	Nos.				
61	Male Berg Strip	160	32	Nos.				
62	Female Berg Strip	160	32	Nos.				
63	9 Volt Battery	160	32	Nos.				
64	Power Bank	96	32	Nos.				
65	Adapters 5v	96	32	Nos.				
66	Electric Wire	32	32	Nos.				
67	Hot Glue Gun	64	32	Nos.				
68	Soldering Kit	32	32	Nos.				
69	Glue stick	880	40	Nos.				
70	IOT Kit	64	32	Nos.				
71	Cardboard Sheet for IOT Kits	320	32	Nos.				
72	AI Kit iStart College (for Annexure 3)	64	32	Nos.				
73	Raspberry PI KIT	32	32	Nos.				
74	Solar Panel 3v 150MA	40	8	Nos.				
75	9v CPU cooling fan	48	8	Nos.				
76	Encoder IC 74148	80	8	Nos.				
77	Decoder IC 74138	80	8	Nos.				
78	Wire Cutter & plier	24	8	Nos.				
79	De-Soldering Pump	24	8	Nos.				
80	Desoldering Wire	24	8	Nos.				
81	Rechargeable Battery 7.4 Volt with Connector	40	8	Nos.				
82	Rechargeable Battery 11.3 Volt	40	8	Nos.				
83	Wifi Module ESP-01	40	8	Nos.				
84	NodeMCU	176	40	Nos.				
85	Gyro Sensor	40	8	Nos.				
86	Voice Recognition Module	24	8	Nos.				
87	ATmega8	24	8	Nos.				
88	ATmega16	40	8	Nos.				
89	Thermistor	24	8	Nos.				
90	Fingerprint Sensor	24	8	Nos.				
91	Stepper Driver - DRV8825	40	8	Nos.				
92	Stepper Driver TP-6600	40	8	Nos.				
93	LED Blue 5mm	2000	8	Nos.				

94	555 Timer IC	160	8	Nos.				
95	IC Base 8 pins	80	8	Nos.				
96	IC Base 14 pins	80	8	Nos.				
97	IC Base 16 pins	80	8	Nos.				
98	IC Base 28 pins	80	8	Nos.				
99	IC Base 40 pins	80	8	Nos.				
100	Heat Shrink 2mm (Meter)	16	8	Nos.				
101	Heat Shrink 3mm (Meter)	16	8	Nos.				
102	Heat Shrink 5mm (Meter)	16	8	Nos.				
103	Heat Shrink 10mm (Meter)	16	8	Nos.				
104	Shift Register – 74595	80	8	Nos.				
105	PWM Generator/ Servo Tester	24	8	Nos.				
106	7 Segment LED display	80	8	Nos.				
107	L298N Driver	40	8	Nos.				
108	L293D Driver	80	8	Nos.				
109	Soldering wire	120	8	Nos.				
110	Soldering flux (100 gram Bottles)	40	8	Nos.				
111	ESP32 Cam Module	16	8	Nos.				
112	Touch Sensor	80	8	Nos.				
113	work Station Table for Soldering 4x2 ft	8	8	Nos.				
114	Battery Operated Drill Machine	8	8	Nos.				
115	PLA Filament	24	8	Nos.				
116	ABS filament	16	8	Nos.				
117	Storage box for PLA	24	8	Nos.				
118	3D Pen	24	8	Nos.				
119	Basic Electronics DIY kit	16	8	Nos.				
120	Mechanical(Modular) Construction Kit	24	8	Nos.				
121	OLED Display	80	8	Nos.				
122	ECG Sensor AD8232	24	8	Nos.				
123	3D Printer Bed Original Flashforge Bed Sticker	8	8	Nos.				
124	3D Printer Tool Kit	16	8	Nos.				
125	Automobile Kit	24	8	Nos.				
126	Peg Board For Wall/Tool Storage	16	8	Nos.				
127	Stickers with Name and Tech Decoration	24	8	Nos.				
128	Artificial Intelligence Based DIY Kits	8	8	Nos.				
129	3D Printer Upgraded Version	8	8	Nos.				
130	hard Disk 2 TB	8	8	Nos.				
131	Electronics Screw Driver	8	8	Nos.				
132	Solder Iron SMD	8	8	Nos.				
133	AA/AAA batteries	160	8	Nos.				
134	Battery holders	40	8	Nos.				
135	9V batteries	80	40	Nos.				
136	Alligator clips	400	8	Nos.				
137	Male/female header pins	800	8	Nos.				
138	JST connectors	80	8	Nos.				
139	Jumper Wire	80	8	Nos.				
140	Resistors	40	8	Nos.				
141	Capacitors	40	8	Nos.				
142	RGB LEDs	2000	8	Nos.				
143	Diodes	16	8	Nos.				

Final RFP for Tinkering Labs (after pre-bid)

144	Transistors	16	8	Nos.				
145	Drone Propellers	160	8	Nos.				
146	Breadboards (disposable in classroom settings)	80	8	Nos.				
147	Potentiometers	104	40	Nos.				
148	DC motors	80	8	Nos.				
149	Vibration motors	40	8	Nos.				
150	Drone Batteries	40	8	Nos.				
151	Hot glue sticks	80	8	Nos.				
152	Tape (electrical, masking, duct, double-sided)	40	8	Nos.				
153	Flux paste	8	8	Nos.				
154	Wire (solid & stranded, various gauges)	8	8	Nos.				
155	PLA Filaments	80	8	Nos.				
156	Falshforge 3D Printer tool sets	8	8	Nos.				
157	Extruder tube	16	8	Nos.				
158	ESP 32 DevKit	40	8	Nos.				
159	GPS Kit	24	8	Nos.				
160	Aerospace Kit	8	8	Nos.				
161	AgriTech Kit	8	8	Nos.				
162	Bio-Tech Kit	24	8	Nos.				
163	AR/VR Headsets	8	8	Nos.				
164	CNC Mills	8	8	Nos.				
165	Laser Cutter	8	8	Nos.				
166	Drone with advanced flight controller	8	8	Nos.				
167	Safety Equipment Kit	16	8	Nos.				
168	Raspberry PI 4	16	8	Nos.				
169	Instructor (Robotics/STEM/3D printing/IoT/Embedded for Tinkering lab)	24	8	Man Month				
170	Training Responsibilities including LMS	192	8	Monthly Training cost				
					Total (in figures)			
Total (in Words)								

Note:

1. For Reference

- Package A: From item number 1 to 168, (Supply & Installation of Lab Equipment's)
- Package B: Item number 169 (Instructor (Robotics/STEM/3D printing/IoT/Embedded for Tinkering lab))
- Package C : Item number 170 (Training Cost LMS)

2. Bidder would be selected on the basis of Least Cost Based Selection Method (LCBS) i.e. L1 method wherein an eligible bidder with the most cumulative competitive (lowest or L1) rates / quote (i.e. total of column I) for the implementation of the project.

ANNEXURE-13: BANK GUARANTEE FORMAT

{to be submitted by the bidder's bank}

BANK GUARANTEE FORMAT – BID SECURITY

(To be stamped in accordance with Stamp Act and on a Stamp Paper (0.25% of Bid Security or ₹25,000, whichever is lesser.) purchased from Rajasthan State only and to be issued by a Nationalized/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-
302005 (Raj). Sir,

1. In accordance with your Notice Inviting Bid for <please specify the project title> vide NIB reference no.
<please specify> M/s. (Name & full address of the firm) (Hereinafter called the "Bidder") hereby submits the Bank Guarantee to participate in the said procurement/ bidding process as mentioned in the bidding document. It is a condition in the bidding documents that the Bidder has to deposit Bid Security amounting to <Rs.____ (Rupees <in words>)> in respect to the NIB Ref. No. _____ dated _____ issued by RISL, First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur, Rajasthan (hereinafter referred to as "RISL") by a Bank Guarantee from a Nationalised Bank/ Scheduled Commercial Bank having its branch at Jaipur irrevocable and operative till the bid validity date (i.e. <please specify> days from the date of submission of bid). It may be extended if required in concurrence with the bid validity. And whereas the Bidder desires to furnish a Bank Guarantee for a sum of <Rupees>.....Rs <in words>)> to the RISL as earnest money deposit.
2. Now, therefore, we the (Bank), a body corporate constituted under the Banking Companies (Acquisition and Transfer of Undertaking) Act. 1969 (delete, if not applicable) and branch Office at..... (Hereinafter referred to as the Guarantor) do hereby undertake and agree to pay forthwith on demand in writing by the RISL of the said guaranteed amount without any demur, reservation or recourse.
3. We, the aforesaid bank, further agree that the RISL shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of any of the terms costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RISL on account thereof to the extent of the Earnest Money required to be deposited by the Bidder in respect of the said bidding document and the decision of the RISL that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RISL shall be final and binding on us.

We, the said Bank further agree that the Guarantee herein contained shall remain in full force and effect until it is released by the RISL and it is further declared that it shall not be necessary for the RISL to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be invoked against the Bank, notwithstanding any security which the RISL may have obtained or shall be obtained from the Bidder at any time when proceedings are taken against the Bank for whatever amount that may be outstanding or unrealized under the Guarantee.

4. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax, registered post or other electronic media to our address, as aforesaid and if sent by post, it shall be deemed to have been given to us after the expiry of 48 hours when the same has been posted.
5. If it is necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this guarantee on the request of our constituent under intimation to you.
6. The right of the RISL to recover the said amount of <Rs. _____ (Rupees <in words>)> from us in manner aforesaid will not be precluded/ affected, even if, disputes have been raised by the said M/s.(Bidder) and/ or dispute or disputes are pending before any court, authority, officer, tribunal, arbitrator(s) etc..
7. Notwithstanding anything stated above, our liability under this guarantee shall be restricted to <Rs. _____ (Rupees <in words>)> and our guarantee shall remain in force till bid validity period i.e. <please specify> days from the last date of bid submission and unless a demand or claim under the guarantee is made on us in writing within three months after the Bid validity date, all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liability thereunder.
8. This guarantee shall be governed by and construed in accordance with the Indian Laws and we hereby submit to the exclusive jurisdiction of courts of Justice in India for the purpose of any suit or action or other proceedings arising out of this guarantee or the subject matter hereof brought by you may not be enforced in or by such court.
9. We hereby confirm that we have the power/s to issue this Guarantee in your favor under the Memorandum and Articles of Association/ Constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power/s and has/have full power/s to execute this guarantee under the Power of Attorney issued by the bank in your favour.

Date (Signature)

..... Place

(Printed Name)

(Designation)

(Bank's common seal)

In presence of:

WTTNESS (with full name, designation, address & official seal, if any)

(1)

(2)

Bank Details

Name & address of Bank:

Name of contact person of Bank:

Contact telephone number:

GUIDELINES FOR SUBMISSION OF BANK GUARANTEE

The Bank Guarantee shall fulfil the following conditions in the absence of which they cannot be considered valid: -

1. Bank Guarantee shall be executed on non-judicial stamp paper of applicable value purchased in the name of the bank.
2. Two persons should sign as witnesses mentioning their full name, designation, address and office seal (if any).
3. The Executor (Bank Authorities) may mention the power of attorney No. and date of execution in his/ her favour authorizing him/ her to sign the document. The Power of Attorney to be witnessed by two persons mentioning their full name and address.
4. The Bank Guarantee should be executed by a Nationalised Bank/ Scheduled Commercial Bank only.
5. Non – Judicial stamp paper shall be used within 6 months from the date of Purchase of the same. Bank Guarantee executed on the non-judicial stamp paper after 6 (six) months of the purchase of such stamp paper shall be treated as non-valid.
6. The contents of Bank Guarantee shall be strictly as per format prescribed by RISL
7. Each page of Bank Guarantee shall bear signature and seal of the Bank and B.G. number.
8. All corrections, deletions etc. in the Bank Guarantee should be authenticated by signature of Bank Officials signing the Bank Guarantee.
9. Bank should separately send through registered post/courier a certified copy of Bank Guarantee, mentioning Bid reference, Bid title and bidder name, directly to the Purchaser at the following address:
Managing Director, RISL
First Floor, Yojana Bhawan, C-Block, Tilak Marg,
C-Scheme, Jaipur-302005 (Raj.)

BANK GUARANTEE FORMAT – PERFORMANCE SECURITY (PBG)

(To be stamped in accordance with Stamp Act and on a Stamp Paper (0.25% of Bid Security or ₹25,000, whichever is lesser) purchased from Rajasthan State only and to be issued by a Nationalized/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

1. In consideration of the RajCOMP Info Services Limited (hereinafter called "RISL") having agreed to exempt M/s.....(hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Agreement No.....dated made between the RISL through and(Contractor) for the work(hereinafter called "the said Agreement") of Security Deposit for the due fulfilment by the said Contractor (s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs.....(rupeesonly), we (indicate the name of the Bank), (hereinafter referred to as "the Bank") at the request of Contractor(s) do hereby undertake to pay to the RISL an amount not exceeding Rs.....(Rupees.....only) on demand.
2. We..... (Indicate the name of Bank), do hereby undertake to pay Rs..... (Rupees. only), the amounts due and payable under this guarantee without any demur or delay, merely on a demand from the RISL. Any such demand made on the bank by the RISL shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The Bank Guarantee shall be completely at the disposal of the RISL and We (Indicate the name of Bank), bound ourselves with all directions given by RISL regarding this Bank Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees. only).
3. We(indicate the name of Bank), undertake to pay to the RISL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal or Arbitrator etc. relating thereto, our liability under these presents being absolute, unequivocal and unconditional.
4. We.....(indicate the name of Bank) further agree that the performance guarantee herein contained shall remain in full force and effective up to <DATE> and that it shall continue to be enforceable for above specified period till all the dues of RISL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the RISL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We(indicate the name of Bank) further agree with the RISL that the RISL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the RISL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to 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 Contractor(s) or for any forbearance, act or omission on the part of the RISL or any indulgence by the RISL to the said Contractor(s) or by any such matter or thing whatsoever which would but for this provision, have effect of so relieving us.
6. The liability of us..... (Indicate the name of Bank), under this guarantee will

not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. We(Indicate the name of Bank), lastly undertake not to revoke this guarantee except with the previous consent of the RISL in writing.
8. This performance Guarantee shall remain valid and in full effect, until it is decided to be discharged by the RISL. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees. only).
9. It shall not be necessary for the RISL to proceed against the contractor before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank notwithstanding any security which the RISL may have obtained or obtain from the contractor.
10. We(Indicate the name of Bank) verify that we have a branch at Jaipur. We undertake that this Bank Guarantee shall be payable at any of its branch at Jaipur. If the last day of expiry of Bank Guarantee happens to be a holiday of the Bank, the Bank Guarantee shall expire on the close of the next working day.
11. We hereby confirm that we have the power(s) to issue this guarantee in your favor under the memorandum and articles of Association/constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power(s) and has/have full power(s) to execute this guarantee for the power of attorney issued by the bank.

Dated.....day of.....For and on behalf of the <Bank> (indicate the Bank)

Signature
(Name & Designation)

Bank's Seal
The above performance Guarantee is accepted by the RISL
For and on behalf of the RISL
Signature (Name & Designation)

ANNEXURE-14: DRAFT AGREEMENT

(in case of RISL) (Tentative Format)

This Contract is made and entered into on this _____ day of _____, 2025 by and between RajCOMP Info Services Limited (RISL), having its head office at First Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005, Rajasthan (herein after referred to as Purchaser/ RISL) which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on ONE PART

And

M/s _____, a company registered under the Indian Companies Act, 1956 with its registered office at _____ (herein after referred to as the "Successful Bidder/ Supplier") which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on the OTHER PART.

Whereas,

Purchaser is desirous of appointing an agency for <project title> as per the Scope of Work and Terms and Conditions as set forth in the RFP document dated <NIB No >.

And whereas

M/s _____ represents that it has the necessary experience for carrying out the overall work as referred to herein and has submitted a bid and subsequent clarifications for providing the required services against said NIB and RFP document issued in this regard, in accordance with the terms and conditions set forth herein and any other reasonable requirements of the Purchaser from time to time.

And whereas

Purchaser has accepted the bid of supplier and has placed the Work Order vide Letter No. _____ dated _____, on which the supplier has given their acceptance vide their Letter No. dated _____.

And whereas

The supplier has deposited a sum of Rs. _____/- (Rupees _____) in the form of ref no. _____ dated of the Bank and valid up to a security deposit for the due performance of the contract.

This agreement is being executed on behalf of M/s (Concerned Department) _____ to procure defined goods and services. RISL is acting merely as a Pure Agent who neither intends to hold or holds any title to the goods and services being procured or provided. So all the goods and services are required to be delivered in the name of M/s (Concerned Department) _____ along with invoices of supplied items/ services, although payment will be made by RISL on behalf of said department/ company.

Now it is hereby agreed to by and between both the parties as under: -

1. The NIB Ref. No. _____ dated _____ and _____ RFP document dated _____ issued by RISL along with its enclosures/annexures, wherever applicable, are deemed to be taken as part of this contract and are binding on both parties executing this contract.
2. In consideration of the payment to be made by RISL to the supplier at the rates set forth in the work order no. _____ dated _____ will duly supply the said articles set forth in "Annexure-I" thereof and provide related services in the manner set forth in the RFP, along with its enclosures/ annexures and Technical Bid, along with subsequent clarifications submitted by the supplier.

3. The RISL do hereby agree that if supplier shall duly supply the said articles and provide related services in the manner aforesaid observe and keep the said terms and conditions of the RFP and Contract, the RISL will pay or cause to be paid to supplier, at the time and the manner set forth in the said conditions of the RFP, the amount payable for each and every project milestone & deliverable. The mode of Payment will be as specified in the RFP document.
4. The timelines for the prescribed Scope of Work, requirement of services and deployment of technical resources shall be effected from the date of work order i.e. and completed by the supplier within the period as specified in the RFP document.
5. In case of extension in the service delivery period, the recovery shall be made as defined in- Service Level standards/Requirements/Agreement as mentioned in this RFP

Note:

- i. Fraction of a day in the reckoning period of delay in supplies/ maintenance services shall be eliminated if it is less than half a day.
- ii. If the supplier requires an extension of time in completion of contractual supply on account of the occurrence of any hindrances, he shall apply in writing to the authority that had placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
- iii. Delivery period may be extended with or without penalties if the delay in the supply of goods in on account of hindrances beyond the control of the supplier.
6. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided as per the procedure mentioned in the RFP document.

In witness whereof the parties have caused this contract to be executed by their Authorized Signatories on this day of, 2025.

Signed By:	Signed By:
Designation:	(Authorized Signatory)
Company:	RISL
<i>In the presence of:</i>	<i>In the presence of:</i>
Designation:	Designation: RISL
Company:	
Designation:	Designation:
Company:	RISL

ANNEXURE-15: FORMAT FOR SUBMISSION OF PROJECT REFERENCES FOR PRE-QUALIFICATION EXPERIENCE

Project Name:	Value of Contract/Work Order (In INR):
Country: Location within country:	Project Duration:
Name of Customer:	Total No. of months of the assignment:
Contact person with address, phone, fax and e-mail:	Approx. value of the services provided by your company under the contract (in INR):
Start date (month/year): Completion date (month/year):	
Name of associated Bidders, if any:	
Narrative description of Project:	
List of Services provided by your firm/company	

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

ANNEXURE-16: MEMORANDUM OF APPEAL UNDER THE RTPP ACT, 2012

Appeal Noof

Before the..... (First/ Second Appellate Authority)

1. Particulars of appellant:
 - a. Name of the appellant: <please specify>
 - b. Official address, if any: <please specify>
 - c. Residential address: <please specify>
2. Name and address of the respondent(s):
 - a. <please specify>
 - b. <please specify>
 - c. <please specify>
3. Number and date of the order appealed against and name and designation of the officer/ authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved: <please specify>
4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative: <please specify>
5. Number of affidavits and documents enclosed with the appeal: <please specify>
6. Grounds of appeal (supported by an affidavit): <please specify>
7. Prayer: <please specify>

Place.....Date

Applicant's Signature



ANNEXURE-17: UNDERTAKING ON AUTHENTICITY OF COMPUTER EQUIPMENTS

{to be filled by the bidder(On Rs. 100/- Non-judicial stamp paper)}

To,

{Procuring Entity},

Reference: NIBNo. : _____ Dated: _____

This has reference to the items being supplied/ quoted to you vide bid ref. no. dated ____.

We hereby undertake that all the components/parts/assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our Bid Security/ SD/ PSD for this bid or debar/ black list us or take suitable action against us.

Authorized Signatory Name:

Designation:

ANNEXURE-18: TECHNICAL SPECIFICATION

Item No. 129: 3D Printers		
Make and Model: <To be Filled >		
Parameter	Min. Specifications	Compliance (Yes/ No)
Print Volume	250 × 250 × 250 mm	
Extruder	Single / Dual	
Maximum Acceleration	20,000 mm/s ² (600mm/sec)	
Machine Dimensions	400 × 410 × 490 mm	
Nozzle Temperature	Max 320°C	
Hotbed Temperature	Max 120°C	
Nozzle Diameter	Standard 0.4 mm (Supports 0.2 / 0.6 / 0.8 mm)	
Firmware	Kobra OS	
Construction Type	CoreXY	
Extrusion System	Dual-gear direct drive extrusion	
Hotend	Full metal, quick-detachable	
Air Filtration	Activated carbon purification	
Control Screen	4.3-inch capacitive touch screen	
Power Loss Recovery	Supported	
Filament Detection	Yes	
Camera	Included	
Video Monitoring	Supported (480p resolution)	
AI Detection	Spaghetti recognition	
Supported File Format	STL,OBJ,G-Code,	
Resources	OEM 3D Design software, 3D gallery, 3D printing curriculum and printing steam, All accessories i.e. cables, patch cords etc.	
Warranty	Minimum 2 Years	

Item No. 163 : AR/VR Headset		
Make and Model: <To be Filled >		
Parameter	Min. Specifications	Compliance (Yes/ No)
Display	2064 × 2208 per eye, LCD, up to 120 Hz refresh, ~110° FoV	
Optics	Pancake lenses, adjustable IPD	
Processor	Qualcomm Snapdragon XR2 Gen 2	
RAM	RAM 8 GB	
Storage	128 GB / 512 GB options	
Tracking	Tracking	
Controllers	Touch Plus Controllers with haptics	
Hand Tracking	Supported (v2.2 hand tracking)	
Audio	Integrated spatial audio, 3.5 mm jack, dual mics	
Connectivity	Wi-Fi 6E, Bluetooth 5.2, USB-C link	
Battery	~2.2 hours active use, USB-C charging	
Weight	515 g	
Comfort	Adjustable strap, glasses-friendly, optional elite head strap	
Guardian System	Passthrough + boundary system	

Software	Screen casting, classroom mode via business license, OpenXR support	
Enterprise Features	For Innovation Entertainment and Business (MDM, kiosk, remote deployment)	
Certifications	CE/FCC, BIS/WPC (via authorized importers)	
Warranty	1 year standard	

Item No. 169 : Instructor	
Parameter	Description
Qualification and Experience	- Minimum B.E. /B.Tech/MCA/M.Tech/Msc. (Computer Science, Information technology, Electronics and Telecom) . - For Divisional Incubation center Should have at-least one (1) year professional experience of tinkering lab/IoT/microprocessor programming/ different sensors or devices.

ANNEXURE-19: Work order list format

{to be verified from CA with UDIN}

Name of the Company/Firm:

NIT Details:

CA Name & Membership NO:

S No	Work order details {No & date}	Work period {from and end date of work}	Value of relevant work	Completion certificate received (Y/N)	Payment received (Y/N)	Amount of payment received	Page Number of work order

Certified by CA with seal and sign

(CA name, membership number)

UDIN :-

Certification date :-

ANNEXURE-20: List of 8 Divisional Incubation Centers, 33 Launchpad Nests (Schools) and 32 District Incubation Centers (Colleges):
List of Divisional incubation Centers

Sr.No.	Divisional Incubation Center	Address
1	BTH Jaipur	BTH, Sansthan path, Jhalana Gram, Malviya Nagar, Jaipur, Rajasthan, 302017
2	iStart Nest, Jodhpur	Polytechnic College premises, Near EVM warehouse, Jodhpur, Rajasthan 342001
3	iStart Nest, Kota	Abhay Command Center, Near CAD Circle, Kota, Rajasthan 324007
4	iStart Nest, Udaipur	Collectorate office, Near Delhi Gate, Udaipur, Rajasthan 313001
5	iStart Nest, Bharatpur	Government Engineering College, Village Shyorana, NH21, Bharatpur, Rajasthan, 321303
6	iStart Nest, Bikaner	Incubation Center Bikaner, Technical University, Karni Industrial Area, Bikaner, Rajasthan, 334004
7	iStart Nest, Churu	Government Lohia College, Opposite Railway Station, Shastri market, Naya Bass, Churu, Rajasthan, 331001
8	iStart Nest, Pali	Government Bangar P.G. College, Indira Colony Vistar, Pali, Rajasthan 306401

List of Launchpad Nests (Schools):

S.No	Division	Districts	Name of Launchpad Nests (Schools)
1	Ajmer	Ajmer	Government Savitri Sr.Sec.School
2	Ajmer	Bhilwara	Gsss School Pratap Nagar
3	Ajmer	Nagaur	Seth Kishan Lal Kankriya Gsss
4	Ajmer	Tonk	Government. Senior Secondary School Kothi Natmam
5	Bharatpur	Bharatpur	Master Adityendra Senior Secondary School
6	Bharatpur	Dholpur	PM Shri MGGS Bada Haidarshah School
7	Bharatpur	Karauli	Swatantra Senani Chiranjilal Sharma Government School
8	Bharatpur	Sawai Madhopur	Mahatma Gandhi Government School
9	Bikaner	Bikaner	Govt Sen Sec School IGNP Colony
10	Bikaner	Churu	Parakh Government Girls Senior Secondary School
11	Bikaner	Hanumangarh	Government. Senior Secondary School
12	Bikaner	Sri Ganganagar	Shaheed Subhash Gsss, No. 9
13	Jaipur	Alwar	Government. Naveen Sen. Sec. School

14	Jaipur	Dausa	Mahatma Gandhi Government School Railway Station
15	Jaipur	Jaipur	Mahatma Gandhi Government School Gaitor
16	Jaipur	Jhunjunu	Sh.Karnal J.P. Janu Gsss
17	Jaipur	Sikar	RK Maroo govt girls school sikar
18	Jodhpur	Barmer	Government Girls Sr. Sec. School
19	Jodhpur	Jaisalmer	As Smg Government Sen Sec School
20	Jodhpur	Jalore	Government Sr. Sec. School
21	Jodhpur	Jodhpur	Government Girls Sr Sec School Mhamandir
22	Jodhpur	Pali	Shree Sultan Sr Sec School
23	Jodhpur	Sirohi	Mahatma Gandhi Government School, Old Building, Sirohi
24	Kota	Baran	Government senior secondary school kota road baran
25	Kota	Bundi	Government. Girls Sr. Sec. School, Vikas Nagar
26	Kota	Jhalawar	Government. Senior Secondary School (New Block)
27	Kota	Kota	Government Girls Senior Secondary School, Dadabari, Kota
28	Udaipur	Banswara	Pm shri Mahatma Gandhi senior secondary school
29	Udaipur	Chittorgarh	Shaheed Major Natwar Singh Shaktawat Gss
30	Udaipur	Dungarpur	Kishan Lal Garg Gss School
31	Udaipur	Pratapgarh	G.S.S.School
32	Udaipur	Rajsamand	Shri Bal Krishna Vidya Bhavan Kankroli
33	Udaipur	Udaipur	Government. Guru Govind Singh Sr. Sec. School

List of District Incubation Centers (Colleges):

S.No	Division	Districts	Name of District Incubation Centers (Colleges)
1	Ajmer	Ajmer	SPC Government College Ajmer
2	Ajmer	Bhilwara	MLv Government PG College
3	Ajmer	Nagaur	Sbrm Government College
4	Ajmer	Tonk	Government. Pg College
5	Bharatpur	Bharatpur	Maharani Shree Jaya Government PG College
6	Bharatpur	Dholpur	Government P.G.College
7	Bharatpur	Karauli	Government College, Karuali
8	Bharatpur	Sawai Madhopur	Shaheed Captain Ripudaman Singh Government PG College
9	Bikaner	Bikaner	Government Dungar College
10	Bikaner	Churu	Swami Gopaldas Government Girls College

11	Bikaner	Hanumangarh	Government. Nehru Memorial Pg College
12	Bikaner	Sri Ganganagar	Dr Bheem Rao Ambedkar Government College
13	Jaipur	Alwar	Babu Shobharam Arts College
14	Jaipur	Dausa	Government Post Graduate College
15	Jaipur	Kotputli	Lal Bahadur Shastri Government College, Kotputli, District-Kotputli- Behror(Raj.)
16	Jaipur	Jhunjhunu	Shri Radheshyam R Morarka Government College, Jhunjhunu
17	Jaipur	Sikar	Government. Arts College Katarathal
18	Jodhpur	Barmer	Government Pg College
19	Jodhpur	Jaisalmer	Sbk Government Pg College
20	Jodhpur	Jalore	Veer Veeramdev Government PG College , Jalore
21	Jodhpur	Sirohi	Government College Sirohi
22	Jodhpur	Jodhpur	Government College Chb
23	Jodhpur	Pali	Government Bangur Pg College
24	Kota	Baran	Government PG College Baran
25	Kota	Bundi	Government College Bundi
26	Kota	Jhalawar	Government College
27	Kota	Kota	Government College Kota Science
28	Udaipur	Banswara	Govind Guru Govt. College Banswara
29	Udaipur	Chittorgarh	Maharana Pratap Government. P. G.College
30	Udaipur	Pratapgarh	Government. P.G. College
31	Udaipur	Rajsamand	Seth Ranglal Kothari Government Post Graduate College
32	Udaipur	Udaipur	Government. Meera Girls College