

BID DOCUMENT

Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra

TENDER NO.: EdCIL/DES/ICT Labs/2026/01



EdCIL (India) Limited
A Govt. of India Category-I Mini Ratna CPSE
EdCIL House, Plot No. 18A, Sector 16A,
Noida-201301 (U.P.) India
Tel: 0120 – 2512001-006, FAX: 0120-2515372

Reg. Office: 7th Floor, Ambadeep Building,
K G Marg, New Delhi-110001
CIN No. U74899DL1981GOI011882

DISCLAIMER

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

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

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

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

EdCIL also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. EdCIL may in its absolute discretion, but without being under any

obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP. The issue of this RFP does not imply that EdCIL is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the Project and EdCIL reserves the right to reject all or any of the Bidders or BIDs without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its BID including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by EdCIL, site visits, investigations, studies or any other costs incurred in connection with or relating to its BID. All such costs and expenses will remain with the Bidder and EdCIL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the BID, regardless of the conduct or outcome of the Bidding Process.

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**Notice Inviting Tender
(e-Tendering mode)
EdCIL (INDIA) LIMITED
(A Govt. of India Mini Ratna CATEOGRY-I CPSE)
SECTOR 16A, NOIDA**

N.I.T. No.: EdCIL/DES/ICT Labs/2026/01

Date: 02.01.2026

Name of Work	Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra	
Tender Type	Limited Tender (Two Packet)	
The Currency in which payment shall be made	Indian Rupees (INR)	
Date of Issue/e-Publishing	02.01.2026	
Date for Pre-Bid Conference and Time	06.01.2026 at 15:30 Hrs	
Bid queries should reach by	05.01.2026 at 17:00 Hrs Bid queries received later than the date and time mentioned above shall not be entertained. Pre-bid queries should be emailed to destenders@edcil.co.in and as per format at Annexure-XVII	
Venue of Pre-Bid Conference	EdCIL House,18 A, Sector-16 A, Noida, U.P. 201301 (in physical mode) and in VC mode also.	
Last Date and Time for receipts of Bids	09.01.2026 up to 15:00 Hrs. In case a Holiday is declared on the day of the event, the same will be held on the next working day at the same time	
Date and Time of Opening of Technical Bids	09.01.2026 at 15:30 Hrs	
Date and Time of Opening of Financial Bids	To be informed later	
Budget for Each department Inclusive of taxes	Department Name	Approved Budget (Inclusive of Taxes)
	ECE	Rs.1,50,00,000/-
	VISI and VDSE	Rs.2, 50,00,000/-
	CSE-1	Rs.1,00,00,000/-
	CSE-2	Rs.1,00,00,000/-

Earnest Money Deposit	Rs. 4,50,000/- (Rupees Four Lakh Fifty thousand only) Bidders must submit an Earnest Money Deposit (EMD) via Bank Guarantee/Demand Draft or Direct Bank Transfer to the specified bank account. Bids without EMD will be rejected. MSME/Startup bidders are exempt from EMD but must provide a recent financial solvency certificate along with
No. of Covers	02 (Two Packets)
Bid Validity days	180 days (From last date of opening of tender)
Performance Bank Guarantee (PBG)	3% of the total work value of the successful bidder. PBG is required to be submitted within 14 days from the date of issue of LOA as per Annexure-XI
Place of delivery	NIT, Kurukshetra Tax Invoice shall be raised and submitted to EdCIL (India) Ltd.
Email Address	destenders@edcil.co.in
Corporate Office	EdCIL House, 18-A, Sector 16A, Film City, Noida, Uttar Pradesh 201301
Registered Office	Amba Deep Building, 7 th Floor, 14 KG, Marg, New Delhi-110001

CHAPTER- I

Offline and Online Bid Submission Documents

1.1 Offline Submissions:

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

Address:

To,
CGM (DES)
EdCIL (India) Limited
Plot No. 18A, EdCIL House,
Sector 16A, Film City, Noida-201301

Project Name: “Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra”.

Tender Number: EdCIL/DES/ICT Labs/2026/01 dated 02.01.2026

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

- I. Original copy of the EMD Security in the form of Demand Draft/BG.
- II. Original Power of Attorney / Board Resolution Copy on a non-judicial stamp paper

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

1.2 Online Submissions:

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

Envelope – 1 (Following documents to be provided as PDF file) (File Size should be less than 5 mb)			
Sl. No.	Documents	Content	File Types
1.	Technical Bid	Technical Compliance Sheet as per Annexure-I	.PDF
2.		Declaration Sheet as per Annexure-II	.PDF
3.		Letter of Undertaking as per Annexure-III	.PDF
4.		Undertaking of Non-Blacklisting as per Annexure-IV	.PDF
5.		Financial Statement as per Annexure-V	.PDF
6.		List of Orders Completed for Govt. Organization/Autonomous Institutes in India as per Annexure VI	.PDF
7.		Manufacturer Authorization Form as per Annexure VII	.PDF
8.		Power of Attorney as per Annexure VIII	.PDF
9.		Letter of Bid Submission as per Annexure IX	.PDF
10.		Bank Guarantee towards Bid Security (EMD) as per Annexure X	.PDF
11.		Performa pre contract integrity pact as per Annexure XII	.PDF
12.		Equipment Specification Compliance as per Annexure-XVI	.PDF
13.		Performa for declaration on proceedings under insolvency and bankruptcy code, 2016 Annexure-XVIII	.PDF
14.	Financial Bid	Financial Bid Submission form	.PDF
15.		Price Bid as per Financial bid (Form 1)	.XLS

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

This is a limited tender.

Tender document shall be downloaded from electronic tender portal link available at www.tenderwizard.com/EDCIL. Aspiring bidders who have not yet registered in online portal should get registered/enrolled before participating. Interested bidders are advised to go through instructions provided at “Instructions to Bidders for e-tendering.”

Bidders are advised to visit the EdCIL Website/www.tenderwizard.com/EDCIL for getting themselves updated for information on this tender. Corrigendum and addendum may be issued on the changes required. Reply on pre-bid queries received by EdCIL shall be displayed on e-tendering website. Bidders are advised to visit the webpage regularly and update themselves. The Pre-Bid queries, Corrigendum/addendum are the part of tender document and Bidders are supposed to upload the same accordingly, duly signed as per the guidelines given in the tender document.

CHAPTER-II
Term of Reference & Definitions

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

CHAPTER-III

Instructions for e-Tendering

Instructions for Online Bid Submission:

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

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

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

PREPARATION OF BIDS

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

SUBMISSION OF BIDS

- Bidder should log into the site well in advance for bid submission and complete all formalities of registration (at least two days in advance of the closing date) so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be sole responsible for any delay in uploading of bid within the stipulated time.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to pay EMD as applicable through demand draft/BG as per tender condition in favour of “**EdCIL (India) Ltd**” payable at **Noida** and enter details of the instruments. Original copies of demand draft/BG for EMD are required to be submitted.
- A standard Financial Bid form has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the financial bid format is found to be modified by the bidder, the bid will be rejected.
- The server time will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

ASSISTANCE TO BIDDERS

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

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

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

MINIMUM REQUIREMENTS AT BIDDER'S END

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

CHAPTER-IV

INSTRUCTION TO BIDDERS

4.1 Due date:

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

4.2 Preparation of Bids:

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

4.3 Language of Proposal:

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

4.4 Cost of Bidding:

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

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

4.5 EMD:

The Bidder should submit EMD through Demand Draft drawn in favor of "EdCIL (India) Limited" payable at NOIDA. The Bid sent without EMD would be considered as UNRESPONSIVE and will not be considered. In case EMD is submitted in the form of BG, the BG should be valid till 45 days after the bid

validity date, as per Annexure-X. The list of bank is detailed in Annexure XV. The bidder should enclose EMD of Rs. 4,50,000.00/- in the form of Bank Guarantee/ Demand Draft drawn in favor of EdCIL (India) Limited and payable at NOIDA, with the Technical Bid. The list of bank from where the EMD is acceptable is placed at annexure XV.

A bidder bid security will be forfeited if the successful bidder fails to sign the contract or furnish the required PBG within specified period.

Note: Bidders registered with MSME and having valid registration certificate issued by NSIC/MSME are exempted for submission of EMD.

4.6 Refund of EMD:

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

4.7 Acceptance/ Rejection of bids:

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

4.9 Amendment in Tender Document

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

CHAPTER-V

SCOPE OF WORK

EdCIL (India) Limited is a Government of India Mini-Ratna Category-I CPSE under Ministry of Education. It is the only CPSE offering project and consultancy management services in all areas of education and human resource development within India and overseas. EdCIL also works as a turnkey service provider for implementation of the various types of Digital solutions and providing its services.

The company accordingly focuses on all emerging areas of IT/ICT applications in the education sector. The vision of the company is to transform the teaching - learning process by improving communication and Collaboration among the faculty, students and administrators of the college through digital initiatives. The aim is to improve integration of technology into the teaching-learning spectrum and encourage students to become creators of their own learning by incorporating 21st century skills such as creativity and critical thinking.

National Institute of Technology (NIT) Kurukshetra intends to strengthen and modernize its laboratory infrastructure to support high-quality teaching, research, and digital learning. As part of this initiative, EdCIL is inviting bids for the **Selection of Service Provider for Establishment of ICT Labs for different departments of National Institute of Technology, Kurukshetra** within the campus.

This project aims to create well-equipped, technology-enabled laboratories that meet current academic standards and support future expansion. This work will involve **coordinated installation**, proper **cable and network management**, **software configuration**, and ensuring that all supplied items comply with safety, performance, and quality requirements as mandated by NIT Kurukshetra.

The selected service provider will be responsible for providing all the required materials as per the Bill of Material in accordance with the technical specifications outlined in the tender.

The scope of work of the service provider shall covers the followings

1. Pre Dispatch Inspection
2. Inland transportation to client location,
3. Delivery of the equipment
4. Loading and unloading wherever is required
5. Transit Insurance Coverage
6. Installation, Cabling, Commissioning and Testing at end location
7. Training of the officials and Documentation
8. Go-Live of the Project.
9. Warranty and Service support for 3 Years.

BILL OF MATERIAL:

The Bill of material and its detailed specifications are given in the Annexure XXI of the RFP. Following are the important conditions for all IT Hardware proposed:

- i. All IT Hardware supplied under the contract must be brand new (the release date should not be more than one year prior), and in good working condition & should comply with the minimum specifications given in this Tender Document in Annexure XVI.
- ii. The selected Bidder needs to supply all the required equipment in single lot/maximum quantities per lot with prior intimation to EdCIL within the stipulated timeline.
- iii. The successful Bidder shall submit Satisfactory Quality Check Pass Reports from the OEM(s) for 100% of the equipment being supplied prior to offering them for pre-dispatch inspection.
- iv. In addition, prior to pre-dispatch inspection, the successful bidder should satisfy that all equipment supplied conforms to applicable quality control parameters.

The bidder has to assure the following towards the support: -

Active Components: Supply of all components as per BOQ at NIT Kurukshetra's campus, with 3 years of OEM warranty and thereafter Annual Maintenance Cost (AMC) of 3 years under back-to-back arrangement with the OEM. The successful bidder must not bid/supply any equipment that is likely to be declared end of sale / support within three years from the date of supply. The bidder would have to replace any such equipment with latest or at least the equivalent configuration.

Passive Components: All passive networking components shall be covered under replacement warranty for 3 years from the OEM and thereafter 3 years AMC (responsibility of AMC service provider). Bidder must submit the OEM contract warranty copy (or certification from OEM that the product offered to the respective SI are with 3 years warranty.)

Scope of Cable plan Implementation and STP Cabling Installation

- The successful bidder has to carry out a site survey at all locations and prepare the network layout and cable routing diagram.
- The STP cables shall be laid in PVC Pipes / Channels of appropriate sizes.
- The cables should not be exposed anywhere.
- The bend radius for STP Cables should be maintained as per industry standards.
- The conduits should be clearly marked with reflective paints / stickers for easier identifications.

- The ends should be clearly labelled using ferrules or self-laminating labels.

Note for cables and Accessories: The laying (if required) and installation of the cables is under the scope of the successful bidder. No additional cost shall be paid.

TERMS AND CONDITIONS

1. INSURANCE & TRANSPORTATION:

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

2. UNLOADING AND UNPACKING:

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

3. PRE-DELIVERY INSPECTION:

- The supplier should notify EdCIL at least 2 days before scheduling the PDI of the equipment's.
- The pre-delivery inspection of the goods should be carried out (at the location provided by the supplier) by the EdCIL officials to check whether the goods are in conformity with the technical specifications attached to the purchase order. A team including the representative of the end client would inspect the material if required.
- The successful Bidder shall facilitate and make available a random 10% sample of each equipment type being supplied by them for a Pre-dispatch Inspection (PDI) by a committee comprising of EdCIL and end client. The PDI will be a key requirement prior to shipment of the equipment. As part of the preparation for PDI, the successful Bidder will provide to EdCIL PDI preparation report.
- The inspection test will be conducted by the EdCIL officials, their consultant or other such person nominated by the EdCIL and by the end client (if required), in the presence of supplier's representatives. The inspection will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There should not be any additional charges for carrying out inspection test. No malfunction, partial or complete failure of any part of the equipment is expected to occur.
- Successful conduct and inspection of the acceptance test for the installed goods and equipment should also be the responsibility and at the cost of the Supplier.
- The time taken for pre-dispatch inspection is inclusive of the scheduled completion time of the delivery & installation of the equipment's. Only the line item certified by the EdCIL official should be dispatched to the end client.
- If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable or not in accordance with the description/specification or otherwise faulty, the EdCIL official or the official from end client (if required) will have the right to reject the equipment or its part. All damaged or unapproved goods should be returned at suppliers cost and risk and the incidental expenses incurred thereon should be recovered from the supplier.

- In the event of the hardware and software failing to pass the PDI, as per the specifications given, a period not exceeding 3 calendar days will be given to the successful Bidder to rectify the failure and clear the inspection, failing which, EdCIL reserves the right to cancel the Purchase Order and levy appropriate penalties in addition to the Liquidated Damages. EdCIL/client will not be responsible for any costs associated with such rejection. The Successful Bidder will be responsible for all equipment supplied till they are delivered and commissioned at the designated location/end client location.
- Additionally, the Successful Bidder shall replace the complete lot of equipment belonging to an equipment type, if more than 25% of the sample size for the equipment type are found defective during the PDI. If the lots for two consecutive types of equipment are rejected, the entire shipment of equipment by the manufacturer shall stand rejected and shall have to be replaced by the successful Bidder with a fresh batch of equipment for shipment and related PDI. Any cost impacts of rejection at any stage shall be borne by the Successful Bidder. If the complete shipment is rejected, EdCIL reserves the right to cancel the Purchase Order and levy penalties in addition to the Liquidated Damages. All penalty calculation are explained in detail in SLA.

4. DELIVERY, INSTALLATION AND COMMISSIONING

- Delivery, Installation and commissioning at the NIT Kurukshetra should be made within a maximum of 90 calendar days from the date of placement of purchase order.
- The successful bidder to provide absolute supply and Commissioning schedule within 14 days from the receipt of Purchase Order.
- Within 24 hours of dispatch, the supplier should notify the EdCIL by cable/ telex/ fax/ e- mail the full details of the shipment.
- Till the EdCIL/end client takes over/ receives the equipment/ items, the supplier should be responsible to keep the same in safe custody and the charges (if any) to be borne by the successful bidder.
- As part of commissioning of the delivered equipment, the successful bidder shall depute its technically qualified representative(s) to facilitate the conduct of inspection of 100% of the delivered quantity in presence of the EdCIL Official(s) and End Client (s), if required. This inspection shall start immediately after delivery of the equipment's at the centralized location.
- After completion of the inspection, all the equipment shall be repackaged. Rejected equipment if any shall be returned back to the authorized representative of the successful bidder. The numbers of such rejected equipment shall be struck off from the Delivery Receipt/Acceptance Receipt and from the Invoice claimed by the Successful Bidder.

- The equipment's are to be delivered and commissioned at the locations decided by NIT Kurukshetra. The power supply and internet connectivity for commissioning will be arranged by NIT Kurukshetra. Until the equipment is handed over to NIT Kurukshetra, successful bidder will be solely responsible for the security of all the equipment.
- The successful bidder shall carry out for delivery of all the equipment's to the NIT Kurukshetra and its subsequent installation, commissioning and testing at different labs of NIT Kurukshetra.

5. TESTING AND COMMISSIONING

- After installation of each and every item, test shall be conducted for system's performance at the end point with the help of testing equipment.
- Commissioning shall mean end-to-end commissioning of the complete System.
- The supplier shall ensure that the cabling and terminations are done in accordance with the industry standard.
- Repair / Refurnishing work owing to damage caused due to cabling or any other work related to this project should be taken care by the successful bidder in coordination with EdCIL. There should not be any hanging or uncovered cables.
- Upon Self-testing and Commissioning, the system shall be offered for inspection to EdCIL/NIT Kurukshetra.

6. FINAL ACCEPTANCE SIGN OFF FROM END CLIENT:

Against the Delivery and Installation & Commissioning at different labs of NIT Kurukshetra, the Successful Bidder shall get a Delivery Certificate and Installation & Commissioning Sign-off certificate from the Head /authorised official of the different labs of NIT Kurukshetra. In all likelihood, the Delivery Certificate and Installation & Commissioning Sign-off certificate from the different labs of NIT Kurukshetra shall be provided to the successful Bidder on the same day of successful delivery and commissioning of the equipment at the NIT Kurukshetra. The damaged/defective equipment, if any shall be taken back by the successful Bidder.

7. SCOPE OF TRAINING

- Training on the design and functioning, operational aspects and maintenance of the complete system subject to satisfaction of the end customer. Similar trainings should be imparted upon the update in technology/ update in network till the tenure of the project prevails.
- Hard copy of the Course material for the above (one copy each per participant), along with the soft copy, to be provided.

- The successful bidder shall also provide information such as Do's & Don'ts of equipment and list of service centres at various places in vicinity of NIT Kurukshetra.

8. WARRANTY AND SUPPORT SERVICES:

- The successful bidder is required to provide a standard onsite warranty support for all solution except solution 3 for the period of Three (03) Year Warranty. The warranty would ensure that the goods/ articles would continue to conform to the standards and specifications as prescribed in the RFP for the entire duration of the Contract.
- All infrastructure procured by the successful bidder for this Project must adhere to the minimum requirements.
- The period of warranty for all equipment/Go-Live of the project shall commence after project commissioning sign-off date from the NIT Kurukshetra.

9. SERVICE LEVEL AGREEMENT

1. The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the successful Bidder to EdCIL/NIT Kurukshetra for the duration of this Agreement. The successful Bidder shall regularly review the performance of the services being provided by the successful Bidder and the effectiveness of this SLA.

2. Definitions:

For purposes of this Service Level Agreement, the definitions and terms as specified in the Contract along with the following terms shall have the meanings set forth below:

- a. "Incident" refers to any event specifying the defect in connectivity (in case of cabling and related accessories) or service breakage (in case of racks).
- b. "Resolution Time" shall mean the time taken (after the incident has been reported, in resolving (diagnosing, troubleshooting and fixing) the issue.

3. Category of SLAs

I. This document provides for minimum level of services required as per contractual obligations based on performance indicators and measurements thereof. The Bidder shall ensure provisioning of all required services while monitoring the performance of the same to effectively comply with the performance levels. The services provided by the Bidder shall be reviewed by EdCIL as the following:

- a. Adherence to delivery schedule.
- b. Regularly check performance of the Bidder against this SLA.
- c. Obtain suggestions for changes to improving the service levels.
- d. Periodic inspection of selected Bidder's Help Desk Records like:
 - Types of Incidents and requests

- Time to resolve and number of unclosed tickets
- Systems involved
- **Codal** life of document after the completion of project. Codal life of document will be adopted by NIT Kurukshetra.

II. The SLA shall be logically segregated in the following categories:

- Pre-Dispatch Inspection
- Implementation Service levels/Delivery Schedule
- Warranty obligations
- AMC
- Compliance and Reporting Procedures

III. The following measurements and targets shall be used to track and report performance on a regular basis. The targets shown in the following tables are applicable for the duration of the Contract. All penalties shall be paid by the successful Bidder to EdCIL.

IV. **Delivery Schedule**

SI. No.	Measurement	Penalty
1.	PDI of the Hardware/ equipment	Penalty of 0.5% for every week, subject to a maximum of 10% of the relevant Milestone payment.
2.	Delivery of Hardware/ equipment at NIT Kurukshetra	
3.	Commissioning of all IT Hardware/ equipment at NIT Kurukshetra	

The target for the above shall be taken from Chapter 7 (Delivery Timelines).

V. **Warranty and Post Warranty Support obligations:**

The support services delivery of the bidder should be governed by the following architecture, a single point of contact with a 24 X 7 available number. An Engineer or an authorized person should be able to log their complaint on this central number, following a predefined process, so as to raise a service request. The request will be attended to, resolved and escalated as per the standard operating procedures.

VI. Support Services Provisioned

Service Entitlement		Standard
Telephone Technical Support	Access to Live Agents at our Support Centre	7 x 24 x 365
On-Site Engineering Services	Service Availability	7 x 24 x 365 (staggered shifts)
	Response Time	4 hours

Point of Contacts

Successful bidder should assign a point of contact Manager for EdCIL/ NIT Kurukshetra.

Manager will be responsible for following:

- Ensuring on timely rectification and/or replacement of ICT components.
- Arranging Standby Hardware, whenever possible.
- Tracking Complaint status and periodic update to customer.
- Provide regular updates to customer contact.

The successful bidder shall depute requisite number of Engineers to address faults as raised by NIT Kurukshetra to its support helpdesk within the Response Time. The Engineer should be adequately apprised of the network infrastructure deployed at NIT Kurukshetra. The Engineer so deputed during the delivery, installation, testing and handover phases and till the completion of the project will be responsible for the following:

- Day-to-day network management and monitoring activities on site for the devices deployed.
- Technically competent to handle usual issues generated in the network management or the devices supplied.
- Capable of articulating complicated technical challenges onsite to experts offsite and working hands-n-eye for the offsite technical team.
- Capable of understanding the client's requirement for MACs (Move-n-Change).
- Reports to off-site Manager.
- If on leave, a substitute will be made with another adequately informed and competent engineer to continue the as usual operations smoothly.

Fault Notification

The helpdesk should be operational 24 X 7 and E-mail address and Phone numbers should be made available that can be reached on. The Service Desk Agent will provide the Customer (Client) with a Service Request Number which the support team will refer to in any correspondence related to this case, and which the Customer should refer to when the Customer wishes to make enquiries about the progress of the case. The service request number will be communicated to the customer immediately via phone & email.

Severity Level Definitions

Severity Level	Critical	Major	Minor
Alternate description	P1	P2	P3
Alternate description	Severity 1	Severity 2	Severity 3
Definition	Complete loss of a core organizational or business process where work cannot reasonably continue. Catastrophic impact on business. Workflow cannot move forward with the product until the issue is resolved. The issue may be caused by a critical failure that causes data failure or precludes the use of function of the product.	High impact on organizational or business processes. Operation of an existing network is severely degraded, or significant aspects of customer's business operation are negatively impacted by inadequate performance of the products. Inability to deploy a key feature or function. Product usage is affected but can continue for a reasonable amount of time before the problem becomes	Minimal organizational or business impact. Anything which is not Out of service or Major is classified as Minor.

E s c a l	SI's priority	SI's immediate priority is to restore service and not to debug the problem.	catastrophic. SI's immediate priority is to restore/improve service, not debug the problem.	SI's priority is to begin collecting data to debug the problem.

ation and Notifications:

The successful bidder ensures that all the stakeholders are notified in timely manner on the status of event/ticket. SI Service Desk system notifies users during following events:

- Logging of ticket.
- Status change of ticket.
- Support engineers-initiated notifications.

In order to ensure issues are resolved within SLA, Successful SI will have to use defined escalation mechanisms. Below is standard Functional Escalation process followed for different severity calls.

Severity of call	Type of call	Timeline
Severity-1: Critical	Incident	6 th Hour
Severity-2: Major	Incident	24 th Hour
Severity-3: Minor	Incident	48 th Hour

Penalty for breach of SLA

S.no	Fault Resolution – SLA	Time Allocated	Penalty (in % percentage or Rs)
1	Call Resolution (in case of Severity-1 type incident)	< 6 Hrs.	0%
		> 6 Hrs < 12 Hrs	0.5 % of the unit hardware cost
		> 12 hrs	2 % of the unit hardware cost
2	Call Resolution (in case of Severity-2 type incident)	< 24 Hrs.	0%
		> 24 Hrs < 48 Hrs	0.5 % of the unit hardware cost
		> 48 hrs.	2 % of the unit hardware cost
3	Call Resolution (in case of Severity-3 type incident)	< 48 Hrs.	0%
		> 48 Hrs < 60 Hrs	0.5 % of the unit hardware cost
		> 60 hrs.	2 % of the unit hardware cost

VI. **SLA Review Process**

- a. Either EdCIL or the selected Bidder may raise an issue, by documenting the business or technical problem, which presents a reasonably objective summary of both points of view and identifies specific points of disagreement with possible solutions.
- b. A meeting or conference call will be conducted to resolve the issue in a timely manner. The documented issues will be distributed to the participants at least 24 hours prior to the discussion if the issue is not an emergency requiring immediate attention.
- c. EdCIL and the selected Bidder shall develop an interim solution, if required, and subsequently permanent solution for the problem at hand. The selected Bidder will then communicate the resolution to all interested parties.
- d. In case the issue is still unresolved, the arbitration procedures described in arbitration clause will be applicable.

10. **LIQUIDATED DAMAGES:**

- Delay in delivery: In case of non/partial supply of the equipment within the stipulated period, penalty @ 1% of the total contract value for every week of delay on the defaulted amount shall be applicable, subject to maximum of 10% of the contract value. After reaching the penalty to maximum, EdCIL will have the right to take appropriate disciplinary actions including termination of the contract.
- Purchaser reserves its right to recover these amounts by any mode such as adjusting from any payments to be made by Purchaser to the Successful Bidder.

11. **INDEMNITY:**

The successful Bidder shall execute and furnish to EdCIL a Deed of Indemnity in favor of "EdCIL" in a form and manner acceptable to EdCIL, indemnifying EdCIL from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Agreement period out of:

- a) Any negligence or wrongful act or omission by the selected Bidder or the selected Bidder's Team in connection with or incidental to this Agreement;
or
- b) A breach of any of the terms of selected Bidder Bid as agreed, the RFP and this Agreement by the Bidder or the selected Bidder's Team.

The indemnity shall be to the extent of 100% in favor of EdCIL.

12. TECHNOLOGY ADVANCEMENT:

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

13. MANUALS AND DRAWINGS:

- a. Before the goods and equipment are taken over by the EdCIL, the Supplier should supply operation and maintenance manuals. These should be in such details as will enable the EdCIL to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- b. The Manuals should be in the ruling language (English) in such form and numbers as stated in the contract.
- c. Unless and otherwise agreed, the goods equipment should not be considered to be completed for the purpose of taking over until such manuals and drawing have been supplied to the EdCIL.

14. DEVIATION CLAUSE:

EdCIL reserves the right to increase or decrease the quantity by 100% to be ordered up to any number of bid quantity at the time of placement of contract as per EdCIL/client requirements. The purchaser also reserves the right to increase the ordered quantity by 100% of the contracted quantity during the currency of the contract at the contracted rates. The Successful Bidder are bound to accept the orders accordingly. The procurement shall be valid for entire duration of contract.

15. DOCUMENTATIONS TO BE PRODUCED BY THE SUCCESSFUL BIDDER DURING PROJECT:

- Original Delivery report duly signed and stamped from the Head/Authorized official of the different labs of NIT Kurukshetra for acknowledgement of Delivery.
- Original Installation and Commissioning certificate issued from Head/Authorized official of the different labs of NIT Kurukshetra for acknowledgement of Commissioning.
- Warranty Certificate in original for all the items supplied to different labs of NIT Kurukshetra.
- Inspection Certificate issued by EdCIL/nominated inspection agency.
- Transit Insurance Certificate.

- Technical writeup of the network design and functioning, system and network architecture diagram with details of interconnectivity between all ICT components.
- Implementation plan and deployment diagram (as built), to be approved by EdCIL /NIT Kurukshetra, before initializing the installation and configuration activity.
- At least 10 high quality Coloured photographs and Videos of 1-minute duration (in soft copy) of ICT Lab setup when all the equipment's have been installed and ICT Lab is live. These to be provided for all the ICT Lab setup. The photographs and videos are to be categorised ICT Lab wise in folders and to be provided in two separate Hard disks.
- The photos and videos need to be provided within 30 days from the date of commissioning of the project. The video must capture the functionality of the device(s) in presence of any official.
- The successful bidder shall provide 2 to 3 videos prepared highlighting the journey of the project as per the following guidelines:
 - The beneficiary should maintain direct eye contact with the camera rather than reading from a script
 - Each video should encompass two key points:
 - ✓ The issues faced by the beneficiaries prior to the project,
 - ✓ About the solution provided
 - ✓ Feedback of the complete setup.
 - It is imperative to record the videos with clear and audible audio
 - The video quality must be in high definition
 - All videos must be recorded in landscape orientation
 - If the beneficiary is speaking in local language, English transcript of the same needs to be provided.

CHAPTER-VI

Eligibility and Bid Evaluation

6.1 Bid Evaluation Process:

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

6.2 Eligibility Criteria:

S. no.	Pre-Qualification/Eligibility Criteria	Supporting Documents required
1	<p>The firm should be a company registered in India under Companies Act 1956, Act 2013 or Proprietorship or a partnership registered under the India Partnership Act 1932 or Partnership firm registered under Limited Liability Partnership Act 2008 with their registered office in India in operation for the last five years. Consortium of companies/ firms is not allowed.</p> <p><u>For MSME/NSIC registered bidder:</u> The firm should be a company registered in India under Companies Act 1956, Act 2013 or Proprietorship or a partnership registered under the India Partnership Act 1932 or Partnership firm registered under Limited Liability Partnership Act 2008 with their registered office in India in operation for the last four years. Consortium of companies/ firms is not allowed.</p>	<ul style="list-style-type: none"> • Valid copy of certificate of incorporation and registration certificates. • Copy of GST registration. Copies of relevant certificates of registration income tax • PAN
2	<p>Bidder must have minimum average annual turnover of Rs. 25 crores during the last three financial year i.e., 2022-23 2023-24 and 2024-25</p> <p>Bidder must be profit making in each of the last three financial year i.e., 2022-23 2023-24 and 2024-25</p> <p>Bidder must have positive net-worth as on 31st March, 2025.</p>	<p>Audited Profit and Loss Statement and Balance sheets for FY 2022-23 2023-24 and 2024-25.</p> <p>Auditor Certificate clearly specifying the turnover along with Profit and Net-worth during the FY 2022-23 2023-24 and</p>

	<p><u>For MSME/NSIC registered bidder:</u> Bidder must have minimum average annual turnover of Rs. 20 crores during the last three financial year i.e., 2022-23 2023-24 and 2024-25 Bidder must be profit making in each of the last three financial year i.e., 2022-23 2023-24 and 2024-25. Bidder must have positive net-worth as on 31st March, 2025.</p>	<p>2024-25. MSME Bidder should produce valid registration certificate from NSIC/MSME.</p>
<p>3</p>	<p>The Bidder should have satisfactorily completed at least three similar projects each costing not less than Rs. 2 Crores for Central Govt./ educational Institutes of National Importance/State Govt. in the last three years ending, as on last date of submission of RFP OR The Bidder should have satisfactorily completed at least two similar projects each costing not less than Rs.3 Crores for Central Govt. /educational Institutes of National Importance/ State Govt. in the last three years ending, as on last date of submission of bid. OR The Bidder should have satisfactorily completed at least one similar project costing not less than Rs. 5 Crores for Central Govt. / educational Institutes of National Importance/ State Govt. in the last three years ending, as on last date of submission of bid.</p> <p><u>For MSME/NSIC registered bidder:</u> The Bidder should have satisfactorily completed at least three similar projects each costing not less than Rs. 1.6 Crores for Central Govt./ educational Institutes of National Importance/State Govt. in the last three years ending, as on last date of submission of RFP OR The Bidder should have satisfactorily completed at least two similar projects each costing not less than Rs. 2.4 Crores for Central Govt. /educational Institutes of</p>	<p>Copy of work order / MoU and Completion Certificate from client / Email from client on project completion / Installation Certificate duly certified from client.</p> <p>The work order should be issued from Center / State Govt/Autonomous bodies only.</p> <p>The value of the work order and should be clearly mentioned in the work order/MoU.</p> <p>*Note: Similar work shall mean supply, installation & commissioning of Desktops/Workstations/Laptops/ Thinclients, Lab furniture, UPS, Networking, Cameras, printers and Large Display screens/class Boards.</p>

	<p>National Importance/ State Govt. in the last three years ending, as on last date of submission of bid.</p> <p style="text-align: center;">OR</p> <p>The Bidder should have satisfactorily completed at least one similar project costing not less than Rs. 4 Crores in Central Govt. / educational Institutes for National Importance/ State Govt. in the last three years ending, as on last date of submission of bid.</p>	
4	The BIDDER should not have been blacklisted by the Central Government, State Governments, PSU or any Government Corporations in India, preceding bid due date.	Copy of undertaking signed by authorized signatory of bidder should be submitted with the technical bid. Format enclosed as Annexure IV
5	<p>The bidder should have the solvency of Rs. 3.5 Crore. The solvency certificate should be issued from Bank.</p> <p><u>For MSME/NSIC registered bidder:</u></p> <p>The bidder should have the solvency of Rs. 2.8 Crore. The solvency certificate should be issued from Bank.</p>	Solvency certificate issued from bank.
6	<p>The Bidder should have the following certificates:</p> <ul style="list-style-type: none"> ○ ISO 9001:2015 or latest ○ ISO 14001:2015 or latest ○ ISO 27001:2013 or latest. 	Copies of the valid certificates.
7	A Power of Attorney / Board Resolution in the name of the person signing of the tender.	Original Power of Attorney / Board Resolution Copy on a non-judicial stamp paper as per Annexure VIII
8	The BIDDER must not have been declared insolvent/ bankrupt or should not have filed for insolvency/ bankruptcy or in the process of being declared bankrupt before any designated authority preceding bid due Date	A Self Declaration on the Letter head of the BIDDER regarding BIDDER Company not being bankrupt or in process of being declared insolvent / bankrupt as on date as per Annexure XVIII.
9	The bidder has to give undertaking for acceptance of terms of “Restrictions on procurement from a bidder of a country which shares a land border with India”	Undertaking as per Annexure- XIX.
10	The bidder has to provide the MAF for the	MAF as per Annexure VII.

	products mentioned at Annexure XXI.	
11	The bidder should have at least 40 numbers of technical manpower/ professionals for the proper execution of the contract as on the date of bid submission	Organizational headcount of Technical staff with technical expertise has to be submitted along with proof of PF/ESI certificates for the period of employment

- Documents must be provided in support of the following otherwise bids will be summarily rejected.
- EdCIL reserves the right to verify the work order submitted by prospective bidder from issuing department.
- Technical bids will also be reviewed for compliance with the necessary Instructions, terms and conditions, scope of work, formats etc. as outlined in this tender.
- The Technical bid will be evaluated by evaluation committee set-up by EDCIL.
- The Technical Evaluation will be conducted based on the relevant support documents submitted by the Bidders.
- The bidder who qualifies the eligibility criteria shall be declared as technically qualified bidder and those shall be notified for opening of their financial bid.
- Notwithstanding anything stated above, the EdCIL reserves the right to assess bidder's capability and capacity to perform the contract, should circumstances warrant such an assessment in the overall interest of the EdCIL.

Evaluation of financial bids:

The Financial bid of only those bidders who are found "technically qualified" shall be opened. The financial bids shall be opened in the presence of representative of technically eligible bidders, who may like to be present. Financial bids will be inspected to ensure their conformity to the format provided in the tender document. If there is any discrepancy between words and figures in any part of the financial bid, the amount indicated in words will prevail. Evaluation will be done on the basis of "Total cost of All four ICT Labs (inclusive of taxes)". The bidder who has quoted Lowest shall be declared as L1 bidder. The Bidder who is quoting has to mandatorily quote for each of the item. Otherwise, the bid shall be summarily rejected.

Chapter-VII

DELIVERY TIMELINE

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

S.No.	Milestone	Timeline (In Calendar Days)
1.	Acceptance of LOA	T+3
2.	Submission of Performance Security	T+14
3.	Pre-Delivery Inspection	T+30
4.	Delivery of equipment at end Location	T+60
5.	Installation and commissioning of equipment at end Location	T+90

Note:- * Here ‘T’ Indicates the date of LOA (Letter of Award).

EdCIL reserves the right to change the timelines as per the requirement of the client. The milestones and timelines can be minimized as per the requirements of the project/NIT Kurukshetra/EdCIL at the time of award of work order.

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

Note:

- I. The Supplier should Provide the project plan after getting the work order from EdCIL. Also, the supplier should inform the deviation from the project plan with proper reason to EdCIL.
- II. Successful Bidder shall make all the arrangements for the timely delivery and installation of equipment for successful completion of project. No other incidental/TA/DA/any other such expenditure shall be paid by EdCIL.
- III. In case of any miss happening/ damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience.

EdCIL or End Client will not be liable to any type of losses in any form.

PAYMENT TERMS

S.No	Milestone	Payment of Contract Value % the
1.	<p>Payment shall be released after Satisfactory delivery of material. Payment will be made if items are found in good condition as per term and conditions mentioned in the RFP.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> • Original Tax invoice showing contract number, goods description, quantity unit price, total amount. • Delivery report duly signed and stamped from authorized official of end client as per term and conditions mentioned in the RFP. • Copy of Insurance Certificate. • Manufacturer's/ Supplier's warranty certificate. 	70%
2.	<p>Payment shall be released after successful installation & commissioning.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> • Installation and Commissioning report duly signed and stamped from end client. • Work completion certificate duly signed and stamped by authorized official of end client. 	25%
3.	<p>The warranty will be for a total period of 3 years. Payment shall be released after successful completion of 2nd year warranty period i.e. after two years from the date of commissioning.</p>	2.5%
4.	<p>The warranty will be for a total period of 3 years. Payment shall be released after successful completion of 3rd year warranty period i.e. after three years from the date of commissioning.</p>	2.5%

Note:

- Payments will be done only on the back to back basis on receipt of the related payment/funds from the end client, subject to satisfactory acceptance of the deliverables from the end client as per the submission of the required document.
- Payment will be processed after proper quality checks and signing of handing over certificates by concerned authorities.
- No advance payment shall be released to the Supplier.
- Payment to the Supplier shall be made in Indian Rupees through account payee cheque / NEFT / RTGS.
- Warranty start will be reckoned from the date of commissioning/Go-Live as approved by the end client. Part payment can be made against delivery/commissioning in accordance to the progress of the project based on the availability of funds in the project.
- The invoices must be based on work orders (or any amendments thereof) issued by the EdCIL.
- SLA Breaches (if any) provided by the client may also result in deduction of the payment against the work order.
- Payments shall be subject to deductions / damages / penalties of any amount for which the Supplier is liable under the contract. Further, all payments shall be made subject to deduction of TDS (Tax Deduction at Source) at the rate applicable from time to time as per the Income-Tax Act, 1961 and any other applicable deductions/ taxes.

Performance Security

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

Chapter-VIII

KEY CONTRACT TERMS

1. Arbitration

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

2. Non-Disclosure

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

3. Risk Purchase Clause

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

4. Compensation

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

5. Representations and Warranties

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

6. Limitation of Liability

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

7. Confidential Information

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

forth in this Clause. The provisions of this Clause respecting Confidential Information shall not apply to the extent, but only to the extent, that such Confidential Information is: (a) already known to the Receiving Party free of any restriction at the time it is obtained from the Disclosing Party, (b) subsequently learned from an independent third party free of any restriction and without breach of this provision; (c) is or becomes publicly available through no wrongful act of the Receiving Party or any third party; (d) is independently developed by the Receiving Party without reference to or use of any Confidential Information of the Disclosing Party; or (e) is required to be disclosed pursuant to an applicable law, rule, regulation, government requirement or court order, or the rules of any stock exchange. Upon the Disclosing Party's written request at any time, or following the completion or termination of this Agreement, the Receiving Party shall promptly return to the Disclosing Party, or destroy, all Confidential Information of the Disclosing Party provided under or in connection with this Agreement, including all copies, portions and summaries thereof.

8. Force Majeure

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

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

9. Prices

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

- III. The price quoted should be inclusive of 3 years on site comprehensive warranty including basic training and demonstration to the end client.

10. Notices

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

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

Supplier: (To be filled in by the supplier)

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

11. Supplier Integrity

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

12. Governing Language

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

13. Applicable Law

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

14. Right to Use Defective Goods

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

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

15. Taxes

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

16. Defective Equipment

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

17. Termination for Default

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

- I. In case Supplier fails to submit PBG within stipulated time, EdCIL reserves the right to terminate the contract without any further notice
- II. If the Supplier fails to complete the work within the period(s) specified in the order, or within any extension thereof granted by the EdCIL; or
- III. If the Supplier fails to perform any other obligation(s) under the Contract.
- IV. If the Supplier, in the judgment of the EdCIL has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- V. For the purpose of this Clause:

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

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

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

19. Guide lines for Evaluation & Short closure:

- a) After opening of price bid but before award, if a bidder(s) is(are) rejected due to initiation of insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code), tender will be finalized ignoring such bid(s).
- b) During execution of contract, if insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code) is

initiated against a contractor and EdCIL shall have the right to short close the contract.

20. Compliance certificate

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

21. Award of Contract

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

22. User List

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

23. Product Life

The Models offered should strictly conform to the specifications given in the product literature and these models should be supported for a minimum period of 3 years including warranty period. The Models proposed/ marked for withdrawal from the market and the models under quality testing should not be offered.

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

24. Acknowledgement

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

25. Price Information

Price information shall not be there in Technical Bid.

26. Rates in Figures and Words

Rates Quoted by the Bidder in tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an

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

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

27. Fall Clause

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

ANNEXURE-I

Technical Compliance Sheet

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

Signature of Bidder Name: _____
Designation: _____
Organization Name: _____
Contact No.: _____
Seal of the Company: _____

ANNEXURE-II

<< Organization Letter Head >>

DECLARATION SHEET

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

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

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

(Signature of the Tenderer)

Name: _____

Seal of the Company

ANNEXURE III

Letter of undertaking
(ON THE LETTER HEAD OF THE BIDDER)

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

Sir,

SUBJECT- Selection of System Integrator for “Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra”.

This bears reference to EdCIL Bid No. **EdCIL/DES/ICT Labs/2026/01** dated We, hereby, accept all the terms and conditions for submitting bid as mentioned in this Bid Document.

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

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

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

Thanking you,

Yours faithfully,

Name of the Bidder _____
Authorized Signatory _____
Seal of the Organization _____

Date:

Place:

ANNEXURE IV

UNDERTAKING OF NON BLACKLISTING

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

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

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

Authorized Signatory

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

ANNEXURE V

Financial Statement

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

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

Signature with Seal of the Chartered Accountant

Signature with Seal of the Bidder

ANNEXURE-VI

**List of Orders Completed for Govt. Organizations / Autonomous Institutes in
India**

Bid No.:

Date:

Name of the Firm:

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

Signature of Bidder
(Signature with seal)

Name: _____

Designation: _____

Organization Name: _____

Contact No. : _____

ANNEXURE-VII

Manufacturer's Authorization Form (MAF)

{to be filled by OEM}

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

Subject: OEM Authorization Letter for Request for Proposal (RFP) for Selection of service provider for **“Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra**

Dear Sir,

We, who are established and reputable having factories / development facilities at (address of factory / facility) do hereby authorize _____ to submit a Bid and accept the Purchase Order against the above Bid Invitation.

We hereby extend our full guarantee and warranty for the Solution, Products and services offered by the above firm against this Bid Invitation. We further undertake that we will support the supplier will all related spares and maintenance during the entire contract period.

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

Yours faithfully,

Name:

Seal:

Note: This letter of authority should be on the letterhead of the OEM

ANNEXURE-VIII

Power of Attorney

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

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

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

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

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

THIS DAY OF 2026.

For (Name and registered address of client)

(Signature, name, designation, and address)

Witness:

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

Notarized

Accepted

.....

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

Notes:

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

ANNEXURE-IX

LETTER OF BID SUBMISSION

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

**SUBJECT: Selection of Service Provider for Establishment of ICT Lab
for different departments of National Institute of Technology
Kurukshetra**

-Submission of Bid -

Sir,

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

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

S.No.	Name of Work	Certificate From

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

Enclosures:

Date of Submission :

ANNEXURE – X

Bank Guarantee towards Bid Security (EMD)

Bank Guarantee No. _____

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

Whereas (here in after called "the Bidder") has submitted its Bid dated(Date) in response to the RFP No:..... for Selection of System Integrator for "Design, Supply & Installation of Smart Classroom and ICT Lab in Training Centers". (here in after called "the Bid")

KNOW ALL MEN by these presents that We having our registered office at..... (hereinafter called the "Bank") are bound onto EdCIL India Limited, Noida (hereinafter called "EdCIL") in the sum of for which payment well and truly to be made to the said EdCIL itself, its successors and assignees by these presents.

The conditions of these obligations are:

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

during the period of Bid validity:

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

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

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

Dated: the Day of for
(indicate the name of bank)

Signature of Banks Authorized official
Witness (Name) _____
Designation with Code No. -----
1. Full Address-----
2.

Annexure XI

Name of the Bank: _____

To

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

PERFORMANCE BANK GUARANTEE FORMAT

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

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

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

under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹ _____ (₹ _____ Only).

3. (A) We _____ (indicate the name of Bank) further undertake to pay to the EdCIL (India) Ltd any money so demanded notwithstanding any dispute or dispute raised by the Agency in any suite or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.

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

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

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

- 5 (a) Not withstanding anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the EdCIL (India) Ltd or until (date of validity/ extended validity) whichever is earlier and no claim shall be valid under this guarantee unless notice in writing thereof is given by the EdCIL (India) Ltd within validity/ extended period of validity of guarantee from the date aforesaid.

(b) Provided always that we _____ (indicate the name of the Bank) unconditionally undertakes to renew this guarantee or to extend the period of guarantee form year to year before the expiry of the period or the extended period of the guarantee, as the case shall be on being called upon to do so by the EdCIL (India) Ltd. If the guarantee is not renewed or the period extended on demand, we _____ (indicate the name of the

Bank) shall pay the EdCIL (India) Ltd the full amount of guarantee on demand and without demur.

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

7. This guarantee will not be discharged by any change in the constitution of the Bank or the Agency.

8. We, _____ (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the EdCIL (India) Ltd in writing.

9. This guarantee shall be valid up to (Date of Completion plus 90 Days). Unless extended on demand by EdCIL (India) Ltd. Notwithstanding anything to the contrary contained hereinbefore, our liability under this guarantee is restricted to Rs..... (Rs.....only) unless a demand under this guarantee is made on us in writing on or before..... we shall be discharged from our liabilities under this guarantee thereafter.

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

ANNEXURE-XII

PROFORMA PRE CONTRACT INTEGRITY PACT

GENERAL

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on ___ day of the month of 2026, between, on one hand, acting through Shri/Smt. _____, Designation, EdCIL (India) Limited (hereinafter called the “BUYER”/ “EdCIL” interchangeably, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

AND

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

WHEREAS the EdCIL proposes to procure services towards Selection of System Integrator for “Design, Supply & Installation of Smart Classroom and ICT Lab in Training Centers”.

For its clients and BIDDER/Seller is willing to offer the said services and related items as referred to in the Bid document No. **EdCIL/DES/ICT Labs/2026/01** Dated 2026.

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

NOW, THEREFORE,

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

Enabling the EdCIL to obtain the desired services as referred to in the Bid document No. **EdCIL/DES/ICT Labs/2026/01** dated2026 at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the EdCIL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

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

1. Commitments of the EdCIL

1.1 The EdCIL undertakes that no official of the EdCIL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1.3 All the officials of the EdCIL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the EdCIL with full and verifiable facts and the same is prima facie found to be correct by the EdCIL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the EdCIL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the EdCIL the proceedings under the contract would not be stalled.

3. Commitments of Bidders

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

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3 Bidders shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 The BIDDER further confirms and declares to the EdCIL that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the EdCIL or any of its functionaries, whether officially or unofficially to the award to the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any

such individual, firm or company in respect of any such intercession, facilitation or recommendation, as the case shall be for satisfactory performance of the proposed terms of Bidder.

- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the EdCIL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the EdCIL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the EdCIL, or alternatively, if any relative of an officer of the EdCIL has financial interest / stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of Bid.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the EdCIL.

4. **PREVIOUS TRANSGRESSION**

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the bid process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject. BIDDER can be disqualified from the Bid process or the contract, if already awarded, can be terminated for such reason.

5. **EARNEST MONEY DEPOSIT**

5.1 While submitting Technical bid, the BIDDER shall deposit an amount of _____ /- as Earnest Money with the EdCIL through Account Payee Bank Demand Draft/ BG in favor of EdCIL (India) Limited. The list of bank from where the EMD is acceptable is placed at annexure XV.

5.2 The instrument for Security Deposit made shall be valid up to the specified period and the bidder shall be liable to keep the said instrument valid for such extended period as the case shall be for satisfactory performance of the terms of Bidder above referred till the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the EdCIL, including O&M period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining of Performance Bond in the corresponding Contract governing such agreement that the provisions of Sanctions for Violation shall be applicable for encashment of Performance Bank Guarantee deposited towards forfeiture of said amount in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing such sanction.

5.4 No interest shall be payable by the EdCIL to the BIDDER on Earnest Money Deposit for the period of its currency.

6. SANCTIONS FOR VIOLATIONS

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the EdCIL to take all or any one of the following actions, wherever required:
- i. To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - ii. The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit / Performance Bond (Bank Guarantee) (after the contract is signed) shall stand forfeited either fully or partially, as decided by the EdCIL and the BUYER (EdCIL) shall not be required to assign any reason therefore.
 - iii. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - iv. To recover all sums already paid by the EdCIL, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR as the case shall be. If any outstanding payment is due to the BIDDER from the EdCIL in connection with any other contract for any other stores or on any account whatsoever and by whatsoever name called, such outstanding payment could also be utilized to recover the aforesaid sum and interest thereto.
 - v. To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the EdCIL, along with interest.
 - vi. To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the EdCIL resulting from such cancellation/rescission and the EdCIL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

- vii. To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which shall be further extended at the discretion of the EdCIL.
 - viii. To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
 - ix. In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the EdCIL with the BIDDER, the same shall not be opened.
 - x. Forfeiture by way of encashment of Performance Bond in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The EdCIL will be entitled to take all or any of the actions mentioned at Para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of any offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the EdCIL to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, an Independent Monitor(s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.

7. INDEPENDENT MONITORS

- 1.1 An Independent monitor (s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.
- 1.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

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

8. FACILITATION OF INVESTIGATION

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

9. LAW AND PLACE OF JURISDICTION

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

10. OTHER LEGAL ACTIONS

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

11. VALIDITY

The validity of this Integrity Pact shall be governed by the terms of the Bid No. **EdCIL/DES/ICT Labs/2026/01 towards** complete execution of the contract to the satisfaction of both the EdCIL and the BIDDER/Seller, including O&M period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract awarding the Bidder with successful bidder.

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

12. The parties hereby sign this Integrity Pact at _____ on _____.

EdCIL (India) Limited	BIDDER	
Name of the Officer:	CHIEF	EXECUTIVE
	OFFICER	
Designation:		

Witness:

Witness:

1.

2.

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

Annexure XIII

Contract Form

THIS AGREEMENT made the day of 2026 between EdCIL (Hereinafter called "the Purchaser") of the one part and (Name & address of Supplier) (Hereinafter called "the Supplier") of the other part:

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.,
 - [a] The Price Schedule submitted by the Bidder;
 - [b] The Schedule of Requirements;
 - [c] The Terms & Conditions
 - [d] The EdCIL's Notification of Award/ Purchase Order
3. In consideration of the payments to be made by the EdCIL to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the EdCIL to provide the goods and services and to remedy defects herein in conformity in all respects with the provisions of the Contract.
4. The EdCIL hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract prices or such other sum as shall become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

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

TOTAL VALUE:

DELIVERY SCHEDULE:

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

Signed, Sealed and Delivered by the
said (For the EdCIL)
in the presence of

Signed, Sealed and Delivered by the
said (For the Supplier) in the presence of

Annexure XIV

FORM – A

DELIVERY CERTIFICATE

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

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

Please make appropriate column, as per requirement.

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

Details of the Goods/Equipment received in objectionable condition

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

Signature of Location Representative

Name: _____

Designation: _____

Date: _____

Rubber Seal: _____

ANNEXURE- XV

LIST OF AUTHORISED BANKS FOR BG

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

Following banks are permissible for accepting Bank Guarantees:

I- SCHEDULED PUBLIC SECTOR BANKS

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

II- SCHEDULED PRIVATE SECTOR BANKS

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

Annexure XVI

EQUIPMENT SPECIFICATION COMPLIANCE

COMPLIANCE STATEMENT FORM

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

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

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

Annexure XVII

Pre-Bid Query Format

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

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

Annexure XVIII

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

Tender No. :

Name of Work :

Bidder 's Name :

I/ We, M/s. _____ declare that:-

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

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

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

Place:_____

Date:_____

Signature of Bidder: _____

Name of Signatory:_____

Annexure XIX

Land Border Declaration
(On Bidder's Letter Head)

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

Place: _____

Date: _____

Signature of Bidder: _____

Name of Signatory: _____

Instructions to Bidders

1. Financial Bid shall be submitted with full price details. Financial Bid shall contain only the prices duly filled in as per the format given in Schedule of Rates provided in the tender document. Price bid should not have any Commercial and/or Technical stipulation in addition to, what is already given in Part I – Technical bid.
2. Financial Bid Standard Form-1 shall be used for the preparation of the price quote according to the instructions provided.
3. The bid shall be evaluated as detailed in “Evaluation of financial bid” in chapter V.
4. The prices quoted by the bidder shall be fixed for the quantity mentioned for the duration of the contract.
5. The changes displayed in the corrigendum/addendum to the bid documents, particularly with the financial bid should be attached with the **Financial Bid Submission Form**, in the same packet, duly signed and stamped by the authorized signatory of the Bidder firm.
6. The financial bid submission form should be filled in all respect and uploaded in **.PDF** format (only) should be duly signed and sealed by the authorized representative. The form 1 should be filled in all respect and uploaded in **.XLS** format (only). In case, the financial bid documents are not complete in all respect the same should be treated as incomplete at financial bid stage and shall be considered non-responsive. The technical bid should not contain any financial terms and pricing.
7. In case, the Bidder/s does not quote for all the items, the Bid shall be treated as incomplete and shall be rejected summarily.
8. The prices must be quoted in the Performa given in financial Bid, failing which the Bid would be treated as unresponsive. Any discount or any other offers affecting the package price must be mentioned in Financial Bid only. Discount or any other offers affecting the Package price mentioned at any other place of the bid other than Financial Bid will not be considered.
9. Price quoted by the bidder is including all transportation and installation etc. cost (if any).

10. The bidder should quote for all components of the solution(s) in accordance to the pre-qualification and technical qualification criteria.

PART II - FINANCIAL BID

Annexure XX

Financial bid submission form

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

Dated: ___/___/2026

Dear Sir,

We, the undersigned, offer to provide “Selection of System Integrator for **Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra** in accordance with your request for proposal dated ___/___/2026.

Our attached Financial Bid for Selection of System Integrator for **Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra**”. is for the amount of _____ [*Indicate the corresponding to the amount(s), currency (ies) {Insert amount(s) in words and figures}*].

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

Yours sincerely,
Authorized Signature {In full and initials}:
Name and Title of Signatory:
In the capacity of:
Address:
E-mail

FORM: 1

Subject: Selection of System Integrator for “**Selection of Service Provider for Establishment of ICT Lab for different departments of National Institute of Technology Kurukshetra**”.

Name of the Owner Individual/ Firm:

Department of ECE

S.No.	Name of the Item	Qty	Unit Cost	Total Cost	GST	GST Amount	Total Cost
			(in Rs.)	(Excl. GST),	(in %),	(in Rs.)	(Incl. GST),
			(B)	(in Rs.)	D	(E=C*D)	(in Rs.)
				C=B*A			=C+E
1	Almirah.	05					
2	Computer Chair.	90					
3	Computer Table	50					
4	Desktop (i9).	15					
5	Desktop (i7).	10					
6	Display (Interactive).	01					
7	Dry Erase Writing Board.	03					
8	Executive Table.	04					
9	High Back Chair.	04					
10	High End Projector.	01					
11	Notebook (Laptop).	25					
12	Pin-Up Notice Board.	03					
13	Printer black and white multi-functional	12					
Total project cost of ECE Labs							

Department of VLSI and VDSE

S.No.	Name of the Item	Qty	Unit Cost	Total Cost	GST	GST Amount	Total Cost
			(in Rs.)	(Excl. GST),	(in %),	(in Rs.)	(Incl. GST),
			(B)	(in Rs.)	D	(E=C*D)	(in Rs.)
				C=B*A			=C+E
1	High End Workstations	30					
2	Desktop (i9, Wifi)	15					
3	Networking (40x30 ft)	1					
4	2 Tn Air Conditioner	4					
5	6 KVA UPS (30 Min)	2					
6	HoD Table	1					
7	HoD Chair	1					
8	7 Seater Sofa Set with Center Table	1					
9	File cabinet	2					
10	Almirah	2					
11	Revolving Chairs	10					
12	Locker (12 Cabinets)	1					
13	Visitor Chairs	6					
14	86" Screen with camera, Mic and Speakers (VC system)	1					
15	CCTV Cameras (Night Vision)	9					
16	NVR with 64 Channel	1					
17	Black and White Printer	2					
18	Color MFP	1					
19	Photo copier	1					
20	Development Boards and software	1					
21	Laptop	1					
Total project cost of VLSI and VDSE Labs							

Department of CSE-1

S.No.	Name of the Item	Qty	Unit Cost	Total Cost	GST	GST Amount	Total Cost
			(in Rs.)	(Excl. GST),	(in %), D	(in Rs.)	(Incl. GST),
			(A)	(B)	(in Rs.)	(E=C*D)	(in Rs.)
					C=B*A		=C+E
1	Highend Desktops (i7)	22					
2	Display 75" with OPS	1					
3	Instructure table	1					
4	Instructure Chair	1					
5	Network Cabling	1					
6	Wall Speakers, Wall panel with Mic	4					
7	Collar Mic	1					
8	Chairs and Table - Lab	27					
9	Highend Workstation	5					
Total project cost of CSE-1 Labs							

Department of CSE-2

S.No.	Name of the Item	Qty	Unit Cost	Total Cost	GST	GST Amount	Total Cost
			(in Rs.)	(Excl. GST),	(in %), D	(in Rs.)	(Incl. GST),
			(A)	(B)	(in Rs.)	(E=C*D)	(in Rs.)
					C=B*A		=C+E
1	Highend Desktops (i7)	30					
2	Display 75"	1					
3	Instructure table	1					
4	Instructure Chair	1					
5	Network Cabling	1					
6	Chairs and Table - Lab	35					
7	Highend Workstation	5					
Total project cost of CSE-2 Labs							
Total cost of All four ICT Labs							

Note:

- The above prices shall be inclusive of all taxes, delivery charges and installation charges including three years onsite comprehensive warranty.
- Applicable deduction on payment will be made for TDS/GST.
- Validity of Offer: The offer should remain valid at least for a period of 180 days to be reckoned from the date of bid opening.
- The above prices shall include three years on site comprehensive warranty and AMC.
- All other incidental charges relating to transportation of equipments at the site are included in the above prices.
- No amount towards TA / DA and lodging, boarding or incidental to execution of the project shall be paid.

Place:

Date:

Signature and Stamp of the Bidder

Name:

Designation:

Annexure XXI

BILL OF MATERIAL AND TECHNICAL SPECIFICATIONS:

Electronics and Communication Engineering

Bill of Quantities (BoQ):

Sr. No.	Item Description	Qty. (Nos.)
1.	Almirah.	05
2.	Computer Chair.	90
3.	Computer Table	50
4.	Desktop (i9).	15
5.	Desktop (i7).	10
6.	Display (Interactive).	01
7.	Dry Erase Writing Board.	03
8.	Executive Table.	04
9.	High Back Chair.	04
10.	High End Projector.	01
11.	Notebook (Laptop).	25
12.	Pin-Up Notice Board.	03
13.	Printer black and white multi-functional	12

Technical Specifications for Notebook:

Processor	
Processor Make	Intel Core Ultra 7 255U.
Number of Cores Per Processor	(12 MB cache, 12 cores, up to 5 GHz Turbo) or higher.
Motherboard	Compatible OEM Motherboard.
Operating System	
Operating System	Pre-loaded Windows 11 Professional or higher.
Certifications to Be Enclosed	BIS Certified, UL, FCC, RoHS, Energy Star certificate, MIL- STD 810H (Min. 11 basic tests passed) or better, EPEAT India Registered.
	ISO 9001:2008, ISO 14001, ISO 27001 & ISO 45001 certification for OEM or better.
Memory	
Type of RAM	DDR5.
Ram Size (GB)	32 GB RAM or higher.
Ram Speed (MHz)	5600 MHz or better.
Ram Expandability	Up to 64 GB.
Storage	
Type of Storage Used To Populate the Internal Bays	NVMe SSD.
Total Storage Capacity (GB)	2 TB M.2 NVMe SSD or higher.
Ports & Connectivity	
Wired Connectivity	10/100/1000 Ethernet Port.
Wi-Fi Connectivity	Wi-Fi 6E, 2x2, 802.11ax or better.
Version of Bluetooth Available	Bluetooth 5.0 or better.
Number of Type C Ports	Min 1 x 3.2 Gen2 Type-C Thunderbolt 4 or better.
Number of HDMI Ports	1 HDMI, 1 Universal Audio Jack, Noble Wedge Lock slot or higher.
Number of USB Ports Version 3.0 Or Above	Min 2 USB ports with minimum USB 3.2 Type A or better.
Display	
Display Size (Inches)	Maximum 15.6".
Display Type	16:10 FHD (1920 x 1200), WVA/IPS.
Panel Technology	Non-Touch with Anti-Glare, Min 300 Nits or better.
Input Devices	Spill resistant Backlit Keyboard with Touchpad.
Graphics	Integrated Graphics.
Audio	Integrated Audio with 2 x 2W Internal speakers.
Battery	Min 3-cell, 50 WHr, Li-ion, Battery or better.

Webcam	Integrated Full HD Camera Webcam.
Security	Hardware TPM 2.0 (Hardware)
Accessories	To be supplied with required connecting cables and power cable and High quality leather carry bag
WARRANTY	
Manufacturer Warranty	03 Years Onsite Warranty from OEM.
SUPPORT	OEM must have online system hardware diagnostics facility and facility to download updates of software, device drivers, and firmware on its website
	Specifications and warranty of the offered Desktop should be available through serial number search / tracking on the website of the OEM.
OEM TOOL	OEM must provide an Artificial Intelligence based tool to improve the user experience with app performance optimization, network connectivity Optimization & privacy optimization.
OEM Website	Product must be available on OEM Website.
OEM Criteria	OEM should be ranked in IDC top vendors list.

High-end Multimedia Projector Technical Specifications:

Sr. No.	Specification
1.	Projection System: 0.65" 1080P
2.	Native Resolution: 1920x1080
3.	Brightness: 5000 (ANSI Lumens)
4.	Brightness (Center Lumens): 5500
5.	Contrast Ratio: 3000000:1
6.	Display Color: 1.07 Billion Colors
7.	Light Source Type: Laser Phosphor
8.	Light Source Life (hours) with Normal Mode: 20000
9.	Light Source Life (hours) with Super Eco Mode: 30000 (Eco)
10.	Lens: F=2.43-2.78, f=16.90-21.61mm
11.	Projection Offset: 132%+/-10%
12.	Throw Ratio: 1.13-1.47
13.	Optical Zoom: 1.3X
14.	Digital Zoom: 0.8x-2.0x
15.	Image Size: 30"-300"
16.	Throw Distance: 0.75-9.76m (100"@2.50m)
17.	Keystone: H: +/-30°, V: +/-30°
18.	Audible Noise (Normal): 30dB
19.	Audible Noise (Eco): 24dB
20.	Input Lag: 49.5ms
21.	Resolution Support: VGA (640 x 480) to WUXGA RB (1920 x 1200) *RB-Reduced Blanking
22.	HDTV Compatibility: 480i, 480p, 576i, 576p, 720p, 1080i, 1080p
23.	Horizontal Frequency: 15K-102KHz
24.	Vertical Scan Rate: 24-120Hz
25.	Input: HDMI: 2 (HDMI 1.4/ HDCP 1.4)
26.	Output: Audio-out (3.5mm): 1, Speaker: 15W
27.	USB Type A (Power): 1 (5V/1.5A)
28.	Control: USB Type A (Services): 1 (share with USB-A Output), RS232 (DB 9-pin male): 1
29.	Power Supply Voltage: Power adaptor: Input: 100~240V, Output: 19.5VDC / 11.79A.
30.	Power Consumption: Normal: 210W, Standby: <0.5W.
31.	Operating Temperature: 0~40°C.
32.	Warranty 3 Years onsite.

Interactive Flat Panel Display Specifications:

Parameters	Specifications
Display	
Screen Size (Inch)	86".
Panel Technology	IPS.
Back Light Type	Direct.
Aspect Ratio	16:9.
Native Resolution	3840x2160 (UHD).
Refresh Rate	60Hz.
Brightness	440 nits.
Contrast Ratio	1200:1
Dynamic CR	5000:1.
Color Gamut	NTSC 68%.
Viewing Angle (H x V)	178°(H/V).
Color Depth (Number of Colors)	16.7 Million Colors.
Response Time	8 ms.
Surface Treatment (Haze)	28%.
Life time	50,000 Hrs.
Operation Hours (Hours/Day)	16/7.
Portrait / Landscape	No/Yes.
Sound	
Speaker (Built-in)	15W x 2.
Touch Feature	
Available Object Size for Touch	Ø2 mm.
Response Time	≤5ms.
Accuracy (Typ.)	±1mm.
Interface	USB2.0.
Protection Glass Thickness	3T (Anti-Glare).
Protection Glass Transmission	88%.
Operating System Support	Windows 7/8/10/11/Linux/Mac/Android. (Linux/Mac Support one-point touch)
Multi Touch Point	Max 40 points (Windows), Max 32 points (Android).

Dedicated Feature	
CPU	Quad core A55.
GPU	Mali G52MP2.
Memory (RAM)	8 GB.
Storage	64 GB.
Wi-Fi	802.11a/b/g/n/ac/ax or better.
LAN	Gigabit LAN.
Bluetooth	Bluetooth 5.0.
OS ver. (Android)	Android 13 or better.
Connectivity	
Input	HDMI (3, HDCP 2.2), RGB (VGA), Audio In, RS-232C In, RJ45 (LAN).
USB	USB3.0 Type-A (4), USB2.0 Type-A (1), USB Type-C (1, USB-PD, DP-Alt).
Output	HDMI Out, Audio Out (1, Optical 1 (SPDIF)), Touch USB (2), RJ45 (LAN).
Hardware Feature	
Hardware Feature	Internal Memory 64GB, Wi-Fi/BT (built-in), Auto Brightness Sensor, Power Indicator.
Software Feature	
Software Feature	Background Image (Booting Logo Image), Multi-screen (PIP / PBP, External Source), Screen Share, Power (Smart Energy Saving, Wake on LAN).
Environmental Conditions	
Operation Temperature	0 °C to 40 °C.
Operation Humidity	10% to 90%.
Power	
Power Supply	AC 100-240V~, 50/60Hz.
Power Type	Built-In Power.
Typ.	385W.
Max.	580W.

BTU (British Thermal Unit)	1314 BTU/Hr. (Typ.), 1979 BTU/Hr. (Max).
DPM	≤0.5W.
Power off	≤0.5W.
Certifications	
Safety	CB / NRTL.
EMC	FCC Class "A" / CE.
ERP / Energy Star	Yes/Yes.
OPS Compatibility	
OPS Type compatible	Yes (Slot).
OPS Power Built-in	Yes.
Connected Care	Yes / Yes (DMS).
Accessory	
Basic	Power Cord 3 M*1, USB Cable (Type A-Type B) 5 M*1, USB Type-C Cable (C to C) 1.8 M*1, HDMI Cable 3 M*1, Writing Pen*2pcs, User Manual, QSG, Carton Box, Remote Controller (include battery 2ea), Wi-Fi module.
Special Feature	
Remote Management Software	Display should support RMS features and this RMS should be from the same OEM vendor.

Computer Chair

Technical Specifications for Computer Chair

1. Seat & Backrest

Seat:

- Injection-moulded seat, hot-pressed on plywood.
- Upholstered with high-quality fabric (min. 250 GSM, abrasion resistant).
- Approx. seat size: 44 cm (W) × 50.2 cm (D).

Backrest:

- Single-piece back shell injection moulded from high-impact glass-filled polypropylene.
- Backrest size: 44.0 cm (W) × 50.2 cm (D) × 40.5 cm (H).
- Ergonomically designed; mesh fabric upholstery.

2. Mechanism

- MS Synchro Tilt Mechanism with multi-position locking.
- Adjustable tilt tension control.
- Smooth reclining with ergonomic motion.

3. Pneumatic Height Adjustment

- Class-4 Gas Lift, 85 mm stroke.
- Height adjustment: 12.0 ± 0.3 cm.

4. Pedestal / Base

- 5-pronged base injection moulded from glass-filled Polyamide (Nylon).
- Base diameter: 26 inches (660 mm).
- Pedestal pitch-centre dia: 61.0 ± 0.5 cm (71.0 ± 1.0 cm with castors).

5. Castors

- 50 mm twin-wheel castors, injection moulded in Nylon.

- Non-marking, smooth rolling, suitable for office floors.
- 6. Rotation
 - Full 360° revolving chair.
- 7. Ergonomics & Comfort
 - Contoured seat and back.
 - Breathable mesh for thermal comfort.
 - Adjustable lumbar support for posture correctness.
- 8. Dimensions (Overall Chair Size)
 - 71 cm (W) × 71 cm (D) × 75.5–87.5 cm (H)
 - Seat height range: 41.5–53.5 cm.
- 9. Quality & Compliance
 - High-strength glass-filled Nylon components (min. 30% glass content).
 - All plastic parts shall be virgin-grade.
 - BIFMA-compliant base and castors.
 - Manufacturer certified to: ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

Computer Table

1. Worktop:

- The worktop shall be made of 25 mm thick Pre-Laminated Board Grade-II conforming to IS: 12823 with laminate thickness minimum 0.7 mm, moisture resistance and anti-termite treated.
- All edges shall have machine-pressed 2 mm thick PVC lipping using hot melt EVA glue.
- The worktop shall include provisions for screen mounting and wire management.

2. Frame & Understructure:

- Primary frame made of MS CRCA pipe:
 - 50 × 50 mm, 1.6 mm thick for main vertical members.
 - 40 × 20 mm, 1.2 mm thick for cross members.
- Powder coating: Minimum 50–60 microns, with proper pre-treatment.
- Slanted legs connected using PDC connectors for stability and modularity.
- Modesty panel: 1.2 mm thick CRCA steel.
- Fully modular knock-down construction.

3. Wire Management:

- Integrated wire management using enclosed metal tray or dual-level channel.
- Cable tray made of 0.8–1.0 mm CRCA sheet, perforated, powder coated.
- Wire riser leg or independent wire risers shall be provided.
- Cutouts suitable for 8-module Anchor plate and 2-module D-Link data plate.

4. Load Bearing:

- Tabletop shall support minimum 100–150 kg uniformly distributed load (UDL).

5. Quality & Compliance:

- Manufacturer shall be ISO 9001:2015, ISO 14001 & ISO 45001 certified.
- BIFMA compliance preferred.
- Knock-down with high-torque Allen bolts & cam locks.
- Minimum 3-year warranty against manufacturing defects.

6. Overall Table Size:

- Approx. 900 mm (W) × 600 mm (D) × 750 mm (H) – adjustable based on cluster configuration.

Technical Specifications for Storage Almira

1. Dimensions

- Overall Size: 1981H × 916W × 486D mm with Dimensional Tolerance: ±10 mm.

2. Construction & Material

- Type: Fully welded construction.
- Material: CRCA steel
 - Body & Doors: Minimum 1.0 mm thick CRCA.
 - Shelves: Minimum 1.0–1.2 mm thick CRCA with reinforcement.
- All edges to be burr-free and safe for handling.

3. Door Configuration

- Full-height, steel hinged doors.
- Minimum 3 heavy-duty hinges per door.
- Door stiffener channel for rigidity.
- Noise reduction rubber pads.

4. Locking & Handle Mechanism

- Heavy-duty Mazak handle.
- Three-way locking mechanism with shooting bolt system.

5. Shelving System

- Adjustable shelf mounting.
- Shelf Load Capacity: Minimum 80–100 kg UDL per shelf.
- No. of shelves: 4 adjustable shelves (plain).

6. Base & Leveling

- M10 screw type levelers with hex plastic base.

7. Surface Preparation & Finish

- Epoxy polyester powder coating.
- Coating thickness: 50 microns minimum (±10 µm).

8. Certifications

The manufacturer must possess valid certifications:

- ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018, ISO 13485:2016.
- GreenGuard / Indoor Advantage Gold.
- Warex and Test certificates.

9. Warranty

- Minimum 2-year comprehensive warranty.
- Replacement of defective parts during warranty at no cost.

10. Additional Requirements (Desirable)

- All components shall be corrosion-resistant.
- Burr-free finish and ergonomic handling.
- Anti-tip safety design.

Pin-Up Notice Board Specifications:

- | | |
|--|----------------------------|
| 1. Type of Front Cover: | with Lockable Front cover. |
| 2. Front cover material of Board: | Acrylic. |
| 3. Front layer of the Board: | Fabric-Covered Board. |
| 4. Core layer material of Board: | Softboard. |
| 5. Rear panel material of Board: | Laminated Sheet. |
| 6. Core material Thickness (In mm): | 9 mm. |
| 7. Color: | Maroon. |
| 8. Frame material of Board: | Aluminium. |
| 9. Mounting: | Wall-mounted. |
| 10. Product with Wall mounting fittings: | Yes. |
| 11. Warranty: | 12 Months. |
| 12. Dimensions of the Pin up Notice Board (In mm): | 1200 x 1800. |

Dry Erase Writing Board Specifications:

- | | |
|--|--|
| 1) Description of Product: | Dry Erase Writing board. |
| 2) Suitable for writing with non- | Dry erase markers containing permanent ink. |
| 3) Dry Erase Writing Board Type | Magnetic. |
| 4) Top Surface colour | White. |
| 5) Mounting Type | Wall Mount. |
| 6) Product with Wall mounting fittings | Yes. |
| 7) Frame (All round framing) | With. |
| 8) Frame Material | Wrought Aluminium and Aluminium Alloys as per IS 1285. |
| 9) Front Surface material: | Resin Coated steel sheet. |
| 10) Back Material strips | Galvanized steel sheets and as per IS 277. |
| 11) Corners of Dry erase writing board | ABS Corners. |

12)Core Material Boards as	Medium Density Fibre per IS 12406.
13)Dimensions (In mm) L x W	1200 x 1800.
14)Core material Thickness (In mm)	9 mm.
15)Frame material thickness (In mm)	1.2 mm.
16)Packed in	Corrugated Box / 3 Ply Carton.

Desktop (i9/NVIDIA):

Component	Specification Details
Processor	Intel Core i9-14900 (24C, up to 5.6 GHz)
Chipset	Workstation-grade Intel W880 or higher. Motherboard should have the same Workstation OEM logo, no stickers allowed.
RAM	32 GB (1*32GB) DDR5 upto 4000 MT/s or higher (Min 4 slots: One populated and Minimum one spare upgradeable upto 128 GB)
Storage	1 TB SSD
GPU	NVIDIA 8 GB Graphics card
Expansion Slots	Min 4 PCIe Slots with minimum 1 x PCIe x16 Slot, 2 x M.2 slot (for SSD): 1, M.2 slot (for WLAN): 1
Operating System	Pre installed Window 11 Pro
OS Support	Window 11 Pro
Mouse & Keyboard	USB Mouse & Keyboard from same OEM
Monitor	23.8 inch" or higher FHD Monitor with height adjustability from the same OEM
Bluetooth	Wi-Fi 6 + Bluetooth-5.0 Enabled from OEM
Power Supply	Min. 260W 80PLUS internal Power Supply Unit (PSU) or higher
Form Factor	Tower type with Hardware TPM 2.0
Ports	Min 8 USB port including min 2 USB 3.2 gen, 1 Type-C, 1 DP port, 1 Ethernet port, 1 HDMI
BIOS Security	Power-on password & Administrator password
Hardware Security	Security Slot, Cable lock with MIL STD Certified
Warranty	3 Years Onsite OEM warranty
Green Certifications	Energy star, EPEAT India Certified for Desktop & Monitor, ISO 9001:2008 Certification for OEM or Better
Mother Board	Logo of OEM should be embossed on mother board no sticker
Manageability	Integrated utility to change BIOS Setting of a device using GUI and Drivers should be available on OEM website for download
LAN	2.5 Gigabit LAN 10/100/1000/2500 Mb/s

Desktop (i7):

Component	Specification Details
Processor	Processor 14 th Gen Intel Core i7
Core	10 Cores or Higher
Chipset	Intel Q series Chipset
RAM	32 GB DDR5 upto 3200 MT/s or higher (Min 2 slots: One populated and Minimum one spare upgradeable upto 64 GB)
Storage	1 TB SSD
GPU	NVIDIA 4 GB Graphics card
Expansion Slots	Min 3 PCIe Slots with minimum 1 x PCIe 4.0 x16 Slot, M.2 slot (for SSD): 1, M.2 slot (for WLAN): 1
Operating System	Pre-installed Window 11 Pro
OS Support	Window 11 Pro
Mouse & Keyboard	USB Mouse & Keyboard from same OEM
Monitor	21.5 inch” or higher FHD Monitor from the same OEM
Bluetooth	Bluetooth-5.0 Enabled
Power Supply	Min. 180W 80PLUS internal Power Supply Unit (PSU)
Form Factor	Tower type with Hardware TPM 2.0 and Volume less than 15L
Ports	Min 8 USB port including min 2 USB 3.2 gen, 1 Type-C, 1 DP port, 1 Ethernet port, 1 HDMI
BIOS Security	Power-on password & Administrator password
Hardware Security	Security Slot, Cable lock with MIL STD Certified
Warranty	3 Years Onsite OEM warranty
Certification/ Support	OEM should have valid India BIS license of Product
Green Certifications	Energy star, EPEAT India Certified for Desktop & Monitor, ISO 9001:2008 Certification for OEM or Better
Mother Board	Logo of OEM should be embossed on mother board no sticker
Manageability	Integrated utility to change BIOS Setting of a device using GUI and Drivers should be available on OEM website for download
LAN	2.5 Gigabit LAN 10/100/1000/2500 Mb/s

Printer black and white multi-functional:

Functions	Print/Copy/Scan
Print Speed (A4, Mono)	Up to 34 ppm
Processor	1.0 GHz Dual-Core
Memory (RAM)	512 MB
Print Language (PDL)	PCL5e/6, PostScript 3
Print Resolution	Up to 2400 Image Quality
Duplex Printing	Auto Duplex Standard

Connectivity	Ethernet, USB, Wi-Fi, Wi-Fi Direct
ADF Capacity	50 Sheets
Duty Cycle (Max)	30,000 pages
Mobile Print Support	AirPrint, Mopria, Wi-Fi Direct
Warranty / Service	Strong service network, enterprise support
Scan utilities	Searchable PDF through Print and Scan experience App
Remote management	Yes

Executive Table:

Overall Dimensions: Width: 2650 mm, Depth: 2200 mm, Height: 750 mm. (Preferably)

1. Primary Work Surface:

- Material: 25 mm thick moisture-resistant MDF, one-side pre-laminated board (IS 14587:1998), preferably E0 or Super E0 board grade.
- Finish: 0.4 mm PVC High-pressure laminate on top with anti-scratch feature.
- Features: Soft-closing access flap with concealed power box; integrated wire-management.

2. Secondary/Return Work Surface:

- Material: 25 mm thick MDF with identical PVC membrane finish.
- Layout: Return surface sized proportionally within 2650 × 2200 mm footprint.
- Modesty Panel: 25 mm thick pre-laminated board with 0.4 mm PVC membrane.

3. Understructure:

- Material: 25 mm thick E1–P2 grade pre-laminated twin board (IS-12823:1990).
- Edge Banding: 2 mm PVC lipping on all exposed edges.
- Support Elements: Integrated pedestal/side-support as per design layout.

4. Pedestal & Drawer System:

- Type: BOX–BOX–FILE configuration (executive-grade).
- Construction: Heavy-duty powder-coated metal body (~450 mm depth minimum).
- Drawer Fronts: 25 mm MDF with 0.4 mm PVC membrane pressed finish.
- Slides: Smooth telescopic panel slides; soft-close and anti-slam mechanism.
- Drawer Extension: Approx. 325 mm with anti-tilt mechanism.
- Security: Central locking mechanism.
- Hardware: Ergonomic metal handles.

5. Design & Ergonomics:

- Work surface optimized for multi-monitor + laptop setup with curved ergonomic front edge and floating-top design with metal brackets.
- Executive-cabin depth allows comfortable visitor seating.
- Cable management channels for clutter-free workspace.
- Rounded/safe edges for ergonomic use.

6. Finish & Aesthetic Details:

- Premium laminate shade matching executive office theme.
- All boards E1–P2 grade with moisture resistance.

- Fully edge-banded for long service life.

7. Preferable Enhancements:

- Dual pedestal support.
- Side storage/CPU housing.
- Extended modesty panel for premium cabin appearance.
- Cable trench with grommets and modular power outlets.

High Back Chair:

1. Seat & Back Assembly

- Structure: Injection-moulded engineering-grade plastic inner and outer shell for rigidity and durability.
- Cushioning: Dual-density HR foam or HR + memory-foam hybrid for enhanced comfort and reduced pressure points.
- Upholstery :
 - Premium soft-touch fabric / leatherette for executive aesthetics.
- Ergonomics:
 - Contoured high back supporting cervical, thoracic, and lumbar regions.
 - Adjustable lumbar support (height + depth) for personalized spinal alignment.

2. Armrests

- PU-moulded top for soft comfortable support.
- Multi-direction adjustability including:
 - Height adjustment and Forward/backward sliding
 - Pivot/angle rotation

3. Mechanism (Advanced Bio-Synchro System)

- Synchro-tilt movement with 2:1 back-to-seat tilt ratio.
- Multi-position tilt lock including free-float mode.
- Tension adjustment knob accessible while seated.
- Natural Glide Mechanism enabling seat shift during recline.
- 360° swivel.

4. Adjustability Features

Seat Depth Adjustment:

- Sliding seat mechanism offering 7–8 cm depth adjustment.

Backrest Height Adjustment:

- Smooth ratchet-based height adjustment system.

Pneumatic Height Adjustment:

- Class-4 heavy-duty gas lift with 150,000-cycle durability.
- Height adjustment range: 10 ± 0.3 cm.

5. Base, Frame & Castors

Five-Star Base:

- High-pressure die-cast aluminium base.
- Optional hidden steel reinforcement.

Castors:

- Silent PU soft castors (65–70 mm), suitable for all flooring types.

6. Optional Headrest

- Height-adjustable and angle-adjustable headrest for cervical support.

7. Finish & Aesthetic Details

- Scratch-resistant, stain-resistant multi-layer finish.

- Dual-tone executive colour options.

- Matching mesh or fabric upholstery choices.

8. Compliance & Quality Standards

- Meets or exceeds BIFMA standards.

- Weight capacity: 120–150 kg.

9. Dimensions

- Seat Height: 43–53 cm, Overall Chair Height: 112–130 cm, Width: 70–76 cm, Depth: 70–76 cm.

VLSI – VDSE Lab BoQ

Sl.No.	Description	Qty
1	High End Workstations	30
2	Desktop (i9, Wifi)	15
3	Networking (40x30 ft)	1
4	2 Tn Air Conditioner	4
5	6 KVA UPS (30 Min)	2
6	HoD Table	1
7	HoD Chair	1
8	7 Seater Sofa Set with Center Table	1
9	File cabinet	2
10	Almirah	2
11	Revolving Chairs	10
12	Locker (12 Cabinets)	1
13	Visitor Chairs	6
14	86" Screen with camera, Mic and Speakers (VC system)	1
15	CCTV Cameras (Night Vision)	9
16	NVR with 64 Channel	1
17	Black and White Printer	2
18	Color MFP	1
19	Photo copier	1
20	Development Boards and software	1
21	Laptop	1

Technical Specifications:

High End Workstations

Specification Name	Values
Form Factor	Tower
Processor Make	Intel
Number of Processors	1
Processor Generation	Intel Xeon W5 or latest
Processor configuration	Intel Xeon W5 Processor, 16 Core, 33MB Cache, up to 4.7 GHz or higher
Chipset	Intel W790 Chipset or better. Motherboard should have the same Workstation OEM logo, no stickers allowed.
Type of Graphics	Dedicated
Graphic Card	Nvidia RTX T400, 4 GB GDDR5, Graphics. The System should support Dual NVIDIA RTX 6000 Ada Generation, 48GB GDDR6 for future upgrade.
RAM	DDR5 or higher
Operating Frequency	4800 or higher
RAM type	ECC
DIMM	8 or higher
RAM Size (GB)	64GB, DDR5 or higher
Type of Hard Disk Drive	SSD & SATA
Size of SSD Disk Drive (GB)	1TB NVME SSD or higher
No of SSD Disk Drives - 1	1 or higher
Size of Hard Disk Drive (TB)	2TB or higher
No of Hard Disk Drives - 1	1 or higher
Operating System	Windows 11 Pro License for Workstations (6 cores plus) or latest (The offered Model to be cross verified on Microsoft website for OS Certification)
Software	Artificial Intelligence Based Performance optimizer software should be provided for improving the performance of the ISV or any application. (Document/ Datasheet required to support the above requirement)
OS Certifications	Windows, Ubuntu Linux (The offered Model to be cross verified on Microsoft & UBUNTU website for OS Certification)
ROHS Compliance	Yes
EPEAT	EPEAT Gold, India Registered or higher
Applications	ISV Certified

BIS Registration	Yes
Networking Interface	Single Gigabit NIC 1G & Single Gigabit NIC 10G or higher
HDMI Port	3 or higher (adapter if not HDMI Port on board)
RJ-45	WiFi6 + Support for QSFP Port, 1x 1G 1x 10G or higher
USB C Port	5 or higher
No. of USB 3.2 Port (No.)	5 or higher
PCIe Slots	Minimum 5 PCIe Slots including 2 x PCIe x16 Slots Gen 4 or higher
Display (antiglare, LED-backlit)	Monitor
Display Type	Non- Touch
Display Size (cm)	23.8" or higher
Panel Type	FHD or higher
Display Resolution (Full HD or better) (Pixel)	1920x1080 or better
Power (Watt)	1350W or higher
Power Management Unit	Power Manager
Keyboard	Same OEM make USB Multimedia Keyboard or better
Mouse	Same OEM make USB Optical Mouse or better
Security	Chassis intrusion switch, Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM or higher
On site OEM warranty (Year)	3 Years Onsite.

Desktop (i9, Wi-Fi)

Component	Specification Details
Processor	Intel Core i9-14900K (24C, up to 5.6 GHz)
Chipset	Workstation-grade Intel W880 or higher. Motherboard should have the same Workstation OEM logo, no stickers allowed.
RAM	64 GB RAM (2*32GB) DDR5 upto 4000 MT/s or higher (Min 4 slots: One populated and Minimum one spare upgradeable upto 128 GB)
Storage	1 TB SSD
GPU	NVIDIA A400 4 GB GDDR6 Graphics card
Expansion Slots	Min 4 PCIe Slots with minimum 1 x PCIe x16 Slot, 2 x M.2 slot (for SSD): 1, M.2 slot (for WLAN): 1
Operating System	Pre installed Window 11 Pro
OS Support	Window 11 Pro
Mouse & Keyboard	USB Mouse & Keyboard from same OEM
Monitor	23.8 inch" or higher FHD Monitor with height adjustability from the same OEM
Bluetooth	Wi-Fi 6 + Bluetooth-5.0 Enabled from OEM
Power Supply	Min. 260W 80PLUS internal Power Supply Unit (PSU) or

	higher
Form Factor	Tower type with Hardware TPM 2.0
Ports	Min 8 USB port including min 2 USB 3.2 gen, 1 Type-C, 1 DP port, 1 Ethernet port, 1 HDMI
BIOS Security	Power-on password & Administrator password
Hardware Security	Security Slot, Cable lock with MIL STD Certified
Warranty	3 Years Onsite OEM warranty
Certification/Support	OEM should have valid India BIS license of Product
Green Certifications	Energy star, EPEAT India Certified for Desktop & Monitor, ISO 9001:2008 Certification for OEM or Better
Mother Board	Logo of OEM should be embossed on mother board no sticker
Manageability	Integrated utility to change BIOS Setting of a device using GUI and Drivers should be available on OEM website for download
LAN	2.5 Gigabit LAN 10/100/1000/2500 Mb/s

6 KVA UPS (30 Min)

6kVA UPS System		
Sr.No	Specifications	Requirement
1	Capacity (in kVA / kW)	6kVA/6kW 1-Phase Input / 1-Phase Output
2	Technology and Capability	
2.1	Online Double Conversion	True Online configuration with double conversion UPS & Zero transfer time.
2.2	DSP Based System (Mandatory)	DSP based control with advanced technology.
2.3	Wide Input voltage Range	Wide Input voltage range from (100 ~ 280VAC)
2.4	Auto Restart & Battery Independent	Auto restart capability with the Independent battery bank operation of the UPS.
2.5	Designed Power Factor 1 (Mandatory)	UPS should be designed at Rated PF of 1 i.e. 10kVA/10kW UPS rating.
2.6	Generator & Cold start compatibility	Generator compatibility with cold start and AC start features.
2.7	Fully Rated Power (kVA=kW) (Mandatory)	Fully rated power (kVA=kW) for maximum power availability.
2.8	N+X Upto 4 Systems (Mandatory)	Possibility of enhancing UPS capacity / redundancy by operating UPS in N+X Parallel. Redundant Configuration upto 4 units.



2.9	PFC & Inverter Based Technology	UPS should have topology for both PFC (power factor correction) & inverter based technology.
3	Model Name & Number	
3.1	6kVA /6kW	Make / Model / Part No to be specified by the vendor
4	Input	
4.1	Input facility -Phases / Wires	Single-Phase / 2-Wire & Gnd (1Phase & Neutral + Ground)
4.2	Nominal Voltage	200/208/220/230/240 VAC
4.3	Nominal Voltage Range	200/208 (de-rating to 90%) : 100VAC~280 VAC 220/230/240 : 100Vac~280 VAC
4.4	Nominal Input Frequency	50/60Hz \pm 10Hz (Auto Selectable)
4.5	Input Frequency Range	40 to 70 Hz
4.6	Input Power Factor	> 0.99(full load)
4.7	Generator Compatibility	Compatibility to genset supply required
4.8	Input Protection	Should be provided at the input of the UPS suitable for the full rated capacity of the UPS.
5	Output	
5.1	Nominal Output voltage	200/208/220/230/240 VAC
5.2	Output Voltage Regulation	\pm 1% for linear load
5.3	Nominal Output Frequency	50/60Hz \pm 0.05 Hz
5.4	Output Frequency Regulation	\pm 0.1Hz
5.5	Output Frequency Slew Rate	< 1Hz/sec
5.6	Output Wave Form	Pure sine wave
5.7	Output Voltage Distortion (THDu)	< 3% for linear load.
5.8	Crest Factor	3:1 On Full Load (Minimum)
5.9	Output Short circuit Protection	Electronic Protection
6	Transfer Time	
6.1	Transfer Time (Mode of operation)	Zero ms from Mains mode to Battery Mode Zero ms from Battery Mode to Mains mode
6.2	Transfer Time (Inverter to Bypass / Bypass to Inverter)	2~4ms
6.3	Automatic Bypass switch	UPS should be capable of automatic change.
7	Efficiency (At Nominal Voltage & Resistive Load up to kW rating of UPS)	
7.1	Overall Efficiency (AC to AC) - Online (Double Conversion)	Upto 95% (on 100% load)
7.2	ECO Mode Efficiency	98%
8	Overload	
8.1	Inverter Overload capacity	<105%for Continuous,<105~<125for

		2Min,<125~<150for 30Sec
9	Display Panel (In-built LC Display & LED)	
9.1	Measurements (On LCD)	Input: Voltage & Frequency,Bypass: Voltage & Frequency,Output: Voltage,frequency,Kilowatt & kVA,Battery: Remaining time & Battery Level Indicator,Load Percentage & Load Level Indicator,Ambient temperature.
9.2	Fault Indication (On LCD)	Abnormal I/P,I/P Fuse blown,Rectifier Abnormal,BUS start abnormal, Battery start abnormal, BUS start abnormal in battery mode, +BUS voltage too high & low, -BUS voltage too high & low, Inverter O/P voltage abnormal, Overload shutdown, Charge voltage too high, Damaged Batteries, Battery missing, Battery voltage to low & Over temperature Protection.
9.3	Indications (LED)	Green & Red (For output & Fault)
9.4	Setable data through (LCD)	Inverter Voltage,Inverter Frequency, Frequency converter, ECO Mode, Overload alarm, Buzzer, Charging current, Battery Capacity, Battery String & Parallel ID
10	Alarms	
10.1	Audible Alarms	Replace Battery,Overload warning & shutdown,High Temp,Low Battery,High Temp warning & shutdown
11	Battery Backup / Battery Bank & Charger	
11.1	Backup Required	12V- 42AH - 16 nos
11.2	Battery Bank Voltage	240 VDC Setable from (192-264 VDC)
11.3	Batteries Type	Sealed Maintenance Free (SMF) - 12V Cells,VRLA,GEL
11.4	Battery Makes	Amara Raja / Exide / HBL
11.5	Number of Battery Banks	Single Bank system.
11.6	Minimum Charger Rating (Including internal / external)	The charger should be able to deliver charging current equivalent to 10% of Battery Ah rating offered.(In case of external chargers, suitable monitoring of the chargers should be provided in the UPS. Also all external chargers taking AC input must have PFC - Power factor correction)

11.7	Charger type / Charging Method & Charging Voltages	Float Cum Boost Voltage Solid state SMPS charger
11.8	External charger board	Additionally install the 4A charger board to increase the charge current to reach at maximum 10A.
11.9	Battery recharge time (After complete discharge) to 90% capacity	3hour to 90%
11.10	Battery Housing (Vendor to provide the GA drawings of the offered Battery Rack)	Should be compact and space saving MS steel open racks complete with interconnectors
11.11	Battery End Cell Voltage	1.75 V/cell
12	Interfaces	
12.1	Serial Communication RS232 Port (Mandatory)	RS232 Port should be provided as standard in the UPS.
12.2	USB port available (Mandatory)	However there should be provision for USB port also in the UPS.
12.3	REPO port available (Mandatory)	However there should be provision for REPO port also in the UPS.
12.4	Interface to NMS (Network Management System) - To be quoted as option	SNMP (IPV6) Card for connecting the UPS to LAN thru Ethernet port & monitoring thru NMS should be available
13	Restart / Testing Capability	
13.1	Cold Start	UPS should start up On AC Supply (Mains) without DC Supply (Batteries) On DC Supply (Batteries) without AC Supply (Mains)
13.2	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown
13.3	Self Diagnosis	UPS should be capable to carry out self test of Rectifier / Charger /Battery & Inverter module during start-up
14	Physical	
14.1	Normal Operating Temperature	0 to 40 deg C
14.2	Storage Temperature	-15 to 50 deg C
14.3	Operating Humidity	5% ~ 95%RH (No Condensing)
14.4	Operating Altitude	0-1000m
14.5	Type of Cooling	Forced Air
14.6	Noise Level should reduce with Load (Mandatory)	< 50 dbA at 1 meter distance
14.7	Form Factor	Tower mountable
14.8	Air Filters	UPS should have internal anticorrosion air filters for dust filtration. (OPTIONAL)

14.9	Dimension (w x d x h) in mm	23934300 mm ³
14.10	Weight - in kg	13Kg
14.11	Reliability	MTBF greater than 100000 hours
14.12	Packaging Material / Vibration Withstand & Drop Test	Recyclable (No CFC) & 1. Vibration testing as per ISTA -1G Non-operational with Packing
14.13	Standard Package of UPS to include the following minimum accessories	1. UPS 2. Parallel Cable 3. USB Cable 4. CU Terminal_ Type A 5. CU Terminal_ Type B 6. CU Terminal_ Type C 7. Battery Terminal Box 8. Battery Terminal Box Cover 9. Screw for Battery Terminal Box Cover 10. Cable Tie 11. User Manual
14.14	Grounding	UPS should have grounding arrangement.
15	Certifications	
15.1	Manufacturer	QMS: As per ISO 9001 EMS: As per ISO 14001 OSHAS: As per ISO 45001
15.2	Product Safety Certifications (Mandatory)	IEC 62040-1:2008 ESD:IEC61000-4-2: level4 RS : IEC61000-4-3: level3 EFT: IEC61000-4-4:level4 SURGE: IEC61000-4-5:level4 CS: IEC61000-4-6: level3 IEC61000-4-8 IEC 61000-2-2 EN 62040-2:2006 EN 61000-3-2:2009 EN 61000-3-3:2013
15.3	ROHS compliance	UPS should be CE, ROHS compliance, UPS manufacturer should have NABL certified Lab for testing

HoD Table & Chair

	<p style="text-align: center;">HoD Table</p>	<p>Main table Size: 1800W x 900D x 750H mm Top : 25 Mm Thick Plain Particle Board (Ppb) Clad With 0.6Mm Thick Post Formed Laminate And 1Mm Thick Backing Laminate (Bdl). Flat Edge Duly Sealed With 2Mm Thick,Side Panel :Pvc Beading,Modesty : 18Mm Thick Plain Particle Board (Ppb)Clad With 1.0Mm Thick Decorative Laminate (DI) On Both Sides. Edge Sealed With 2Mm Thick Pvc Beading.</p> <p>Side Table 900W x 450D x 750H mm This fine range of postformed desks are complemented by side units, 25mm thick plain particle board (PPB) clad with 0.6mm thick post formed laminate and 1mm thick backing laminate (BDL). Flat edge duly sealed with 2mm thick PVC beading. 18Mm thick plain particle board (PPB) clad with 1.0mm thick decorative laminate (DL) on both sides. Edge sealed with 2mm thick PVC beading.</p>
	<p style="text-align: center;">HoD Chair</p>	<p>SEAT/BACK ASSEMBLY: The Cushioned seat assembly consists of seat outer (material-30% Glass Fiber Nylon)& upholstered Seat inner (material- Poly Propylene) with moulded Polyurethane foam & polyester fabric. The Net Back is made up of Back outer (material-Glass Fiber Filled Nylon)& Back inner (material- PP) and upholstered using Polyester Mesh fabric wth high tenacity yarn.</p> <p>Full Back Size: 46.5 cm. (W) x 60.0 cm. (H) Seat Size : 51.0 cm. (Yv) x 49.0 cm. (D)</p> <p>HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR Polyurethane foam is moulded with density = 45+/- 2 kg/m³ and Hardness load 12 +/- 2 kgf as per IS:7888 for 25% compression.</p> <p>BACK SPINE: The support spine is made up of High Pressure Die .cast polished Aluminium.</p> <p>ARMRESTS : The armrest is having two adjustment, Height (6±0.5cm) and Depth (6±0.5cm). Height adjustment is provided in Aluminium structure of armrest which is connected to Aluminium Back spine and is operated by button. The depth adjustment is provided in pad which is fixed to armrest structure. Armrest Top is made up of PU molded over plastic inner.</p> <p>ACTIVE BIO-SYNCHRO MECHANISM: The adjustable tilting mechanism is designed with the following features:</p>

	<p>• 360° revolving type • Front-pivot for tilt with feet resting on ground & continuous lumber support ensuring more comfort • Tilt tension adjustment can be operated in seating position • 5 position Tilt limiter giving option of variable tilt angle to the chair • Seat I back tilting ratio of 1:2 • The mechanism housing is made up of HPDC Aluminium & black powder coated (OFT 40 to 60 micron)</p> <p>SEAT DEPTH ADJUSTMENT: Seat depth adjustment is integrated in the seat through a sliding mechanism. Seat depth adjustment range is of 3.75±0.1 cm</p> <p>LUMBAR SUPPORT ASSEMBLY: The Lumbar support assembly consists of lumbar spine (material-Glass Fiber Filled Nylon) which is fixed to Aluminium Back spine. The Lumbar pad (material- Poly Propylene) is fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of 5±0.5cm.</p> <p>NECKREST ASSEMBLY: The Neckrest assembly consists of upholstered Neckrest inner (material- Poly Propylene) with moulded Polyurethane foam & polyester fabric. Upholstered inner is fixed to Neckrest cover. Neckrest is fixed to Back assembly through Neckrest spine. Neckrest Assembly has height adjustment of 5.5 ± 0.5cm and Rotation Adjustment of overall 20° ± 2°.</p> <p>PNEUMATIC HEIGHT ADJUSTMENT : The pneumatic height adjustment has an adjustment stroke of 10.0 ± 0.3cm</p> <p>PEDESTAL ASSEMBLY WITH CASTORS : The pedestal is High Pressure Die cast polished Aluminium and fitted with 5 nos. twin wheel castors. The pedestal is 65.0 ± 0.5cm. pitch-center dia.(75.0 ± 1.0cm. With castors.)</p> <p>TWIN WHEEL CASTORS : The twin wheel castors are injection moulded in black PP having 6.0± 0.1cm wheel Diameter.</p> <p>Product Certificates: CII-Green products and services council & Greenguard and ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.</p>
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7 Seater Sofa Set: (With Center Table)

3 SEATER - W-205cm,D-92cm,H-82cm & 2 SEATER - W- 146cm,D-92cm,H-82cm, / (±0.5cm).

SEAT FOAM: The seat is made of PU foam with Density 32 ± 2 kg/cu.mtr having an additional top layer of PU foam with Density 28 ± 2 kg/cu. Seat is upholstered with fabric or leatherette.

2) **BACK FOAM:** The back is made of PU foam with Density 28 ± 2 kg/cu. mtr with two additional top layer of supersoft foam of density 23±2 kg/cu. mtr, upholstered with fabric or leatherette.

3) UNDERSTRUCTRE : Understructure is made up of 1.2±0.1 cm. thick hot pressed plywood measured as per QA method described in OCP-QLTA-PL 14-18 4. Dia 4mm zigzag spring assembly is mounted in understruCture for support and additional cushioning purpose.

4) LEG ASSEMBLY: It is a welded assembly made in Stainless steel (grade SS 202) tube & plate.

ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.



Filing Cabinet

Dimension: 1320H x 470W x 620D

Material: CRCA, 0.7 mm Thick (Top, Side & Drawer Front);0.6 mm Thick (Frames, Drawer- Inside Cover, Side Back Side), 0.5mm Thick (Back, Bottom, Drawer Bottom).

Drawer front: Easy to grip Full length Handle recess integrated into Metal Drawer fronts.

Label Holder: Snap on type plastic label holder on Drawer Fronts.

Drawer Size & Files type: • For hanging 'Ezee' / 'Visa' files (Foolscap) from front to back (Files Along the Width). • No. of 20 mm thk file which can be hanged in above way per drawer is 28.

Locking & anti-tipping arrangement: Centralized locking with 10 lever Cam Lock & having anti-tipping arrangement to ensure that when one drawer is opened for use, it does not allow other drawers to be opened.

Slide: High quality precision ball slide. Drawer Load:40 kg. UDL for 75,000 cycles (BS).

Triangular Plate: Plain Triangular plate pop riveted at the bottom corners for rigidity.

Finish: Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10).

ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.



Almirah

Dimension: 1981H x 916W x 486D

Construction & Material -Welded construction.0.8 mm thk CRCA for Back, Shelf & 0.9 mm thkCRCA for all other components.Configuration (Door) - Full height Steel Hinged Door.

Locking & handle : Mazak Handle, 3 waylocking mechanism with shooting bolt arrangement.

Shelving :Height wise Adjustable Shelf Mounting,Uniformly Distributed LoadCapacity per each full shelf is 80 Kg maximum,Plain 4S : 4 Nos. of Adjustable Full Shelves,Leveler-M10 Screw type leveler withhex plastic base.Finish-Epoxy Polyester Powder coated to the thickness of 50 microns (+/- 10).

Product Certificate: Green Guard and Indoor Advantage™ Gold and ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.



Revolving Chairs with fixed base

SEAT/BACK ASSEMBLY: The seat is made up of 1.2 +0.1cm. thick hot pressed plywood measured as per QA method described in OCP-QLTA-P14-18 and the back is made up of injection moulded glass filled nylon & upholstered using mesh fabric with high tenacity yarn.

BACK SIZE 45.0 cm. (W) x 65.3 cm. (H), SEAT SIZE 47.0 cm. (W) x 51.5 cm. (D), HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR Polyurethane foam is moulded with density = 45 +2 kg/3 and Hardness load 16 + 2 kgf as per IS:7888 for 25% compression.

ARMRESTS: The adjustable armrest is designed with the following features1) Up-Down adjustment - 8 Steps (8.0-0.5cm range),2) Height adjustable armrest structure which is powder coated & fitted with an armrest top.,3) Fixed armrest top is PU moulded over metal insert.

LUMBAR SUPPORT ASSEMBLY: The Lumbar suport assembly consists of polypropylene pad with moulded polyurethane foam & covered with polyester fabric. The height of lumbar Pad can be adjusted through two projeccting knob provided on the rear side of the pad. Lumbar Support Assembly has height adjustmentof 8.0±0.5cm.

FRONT PIVOT SYNCHRO MECHANISM: The adjustable tilting mechanism is designed with the following features: 360° revolving type, Single point control, Front pivot for tilt with feet resting on ground ensuring more comfort, Tilt tension adjustment, 4-position locking with anti-shock feature. Seat/Back tilting ratio of 1:2.

NECKREST: The neckrest assembly consists of polypropylene pad with moulded polyurethane foam and covered with polyester fabric. Neckrest is fixed to back assembly through neckrest connector. It has an adjustment of $4.2 \pm 0.5\text{cm}$ and rotation adjustment of overall $76^\circ \pm 2^\circ$. The complete neckrest assembly is retro fit to the main chair.

PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of $10.0 \pm 0.3\text{cm}$.

PEDESTAL ASSEMBLY: The Pedestal is injection moulded in black 30% glass filled nylon and fitted with 5 no's twin wheel castors. The pedestal pitch center dia $66.1 \pm 0.5\text{cm}$.

TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in Black Nylon.

Product Certificates : AIOTA, BIFMA, Indoor Air Quality, Green Pro, BIFMA Level 2, ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.



Locker (12 Cabinets)

Dimensions: 1125W x 470D x 1950H

Height including Leveler, Height of leveler is 50mm and adjustment possible is 15mm

Construction & Material: Aesthetically appealing completely knock down construction
 Legs fitted with screw type leveler, made from combination of Top panel (0.5mm CRCA), side panel (0.5mm CRCA) Bottom panel (0.5mm CRCA), Back Panel (0.5mm CRCA) top bottom stiffener (1.2mm CRCA) and end cover (0.5mm CRCA).

Doors: Made from 0.6mm thick CRCA (D Grade IS 513), Soft closing hinge.

Door Size: 4 Door Locker - 373W x 18(T) x 473(H)

Cam Lock: Oval knob that functions as a handle, Click action mechanism, Key removal in locked and unlocked position, Zinc alloy die cast housing.

Finish: Epoxy Polyester powder coated to the thickness of 50 of microns.

Product Certification: Green Pro, GRIHA & SVAGRIHA, Indoor Advantage GOLD, GREENGUARD

ISO : 13485: 2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Test Certificate & Warex Certificate.



Visitor Chairs

1).SEAT ASSEMBLY:The seat assembly is made up of 1.2 ±0.1cm. thick hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18, upholstered with fabric upholstery covers and moulded Polyurethane foam.

SEAT SIZE : 47.0 cm. (W) x 48.0 cm. (D).

2). BACK ASSEMBLY: The back assembly is made of powder coated (OFT 40-60 microns) tubular frame of 0 2.54 ±0.03cm. x 0.2 ±0.016cm.thk. MS ERW tube designed with contoured lumbar support for extra comfort. The back is upholstered using Net fabric with high tenacity yarn.

FULL BACK SIZE : 46.5 cm (W) x 60.5 cm (H)

3). HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam is moulded with density =45+/-2 kg/m³ and hardness load 16 ± 2 kgf as per IS:7888 for 25% compression.

4). ARMRESTS: The one-piece armrests are injection moulded from black Co-polymer Polypropylene.

5). TUBULAR FRAME : The powder coated (DFT 40-60 microns) tubular frame is cantilever type and made of 2.54+/- 0.03cm, x 0.2+/-0.016cm.thk. MS ERW Tube.

Product Certificates : Indoor Advantage Gold, GRIHA, Greenguard, BIFMA Level 2, ISO : 13485: 2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Test Certificate & Warex Certificate.



Photocopier:

Category	Photocopier
Product Name	35 ppm Digital photocopier with Network
Product Description	35ppm A4 Print speed, Duty Cycle of 1,53,000 pages / month, USB 3.0, FPOT 10.4s 1.05 GHz Dual Core CPU, 2 GB RAM, optional 320GB HDD, Network Scan, Network Accounting 130 sheet DADF, 100 sheet by-pass, 1200 X 1200 dpi print resolution, 60 – 356 gsm paper support 7” App based, tablet-like, tilt-capable UI, cloud and mobile connectivity, App Gallery, NFC Bi-Directional Real-time Status, Built-in OCR (searchable PDF)
Paper Input	Single – Pass Duplex Automatic Document Feeder (SPDF) – 130 Sheets. Speed :- Up to 80 ipm
Technology	Laser Separate Drum & Toner
Paper Size	A3
Minimum Speed Per Minute In A4 Size	35
Memory (RAM)	4 GB
Hard Disk	320 GB (Optional)
Processor	1.05 GHz Dual Core
Duplexing Feature Availability	Yes
Network Feature Availability	Yes
Document Feeder	Yes
Wifi Capability	Yes
Tray Capacity	500 Sheets
Yield (No. Of Copies)- M/c	1600000
Yield (No. Of Copies)- Drum And Toner	DRUM:80000 & TONER :31000
Mandatory BIS Registration	Yes
Certified Agency	BIS

Black and White MFP

Functions	Print/Copy/Scan
Print Speed (A4, Mono)	Up to 34 ppm
Processor	1.0 GHz Dual-Core
Memory (RAM)	512 MB
Print Language (PDL)	PCL5e/6, PostScript 3
Print Resolution	Up to 2400 Image Quality
Duplex Printing	Auto Duplex Standard
Connectivity	Ethernet, USB, Wi-Fi, Wi-Fi Direct
ADF Capacity	50 Sheets
Duty Cycle (Max)	30,000 pages
Mobile Print Support	AirPrint, Mopria, Wi-Fi Direct
Warranty / Service	Strong service network, enterprise support
Scan utilities	Searchable PDF through Print and Scan experience App
Remote management	Easy assist App

Color MFP

Specifications	
Letter Color Print Speed	24.0
Letter BW Print Speed	24.0
First Print Out Color (sec)	11.1
First Print Out BW (sec)	11.0
Color Print Resolution	600x600
BW Print Resolution	600x600
Processor Speed (MHz)	1000
Std RAM (MB)	256
Max RAM (MB)	256
Monthly Duty (images)	30,000
Functionality	
Print	Y
Scan	Y
Copy	Y
Fax	Y

Microcontroller Development Boards

List of Items	Quantity
List of Hardwares	
Raspberry Pi 5 Model 8GB (All2509)	30
Raspberry Pi 5 Model 16GB [All3342]	20
Raspberry Pi Pico 2 W, Next-gen Performance: Dual Arm Cortex-M33 and RISC-V cores, Improved Connectivity: Wi-Fi and Bluetooth 5.2 support.	50
[BOA0155] Arduino Mega 2560 R3 - Original	15
[BOA2768] Arduino Portenta H7	25
[All4195] Development Board, Nucleo, STM32 MCUS, Arduino Uno Compatible, On-Board Programmer Manufacturer : STMICROELECTRONICS MPN : NUCLEO-L433RC-P	50
[OND4204] STM32F769I-DISCO (Discovery Kit, STM32F769NI MCU, On-Board ST-LINK/V2-1, 4" Capacitive Touch LCD Display) Manufacturer : STMICROELECTRONICS MPN : STM32F769I-DISCO	15
[BOA2988] NodeMCU ESP8266 AMICA CP2102 WiFi Development Board	60
[OND3832] ESP32-S3-DevKitC-1U-N8 Development Board Mfr :Espressif Systems Mfr No: ESP32-S3-DevKitC-1U-N8	15
[OND4196] LiteWing - ESP32 based Programmable Drone Development Board with Battery for Makers, Developers and Educators	20
[ADD4197] LAUNCHXL-CC2640R2 Texas Instruments Mfr. No: LAUNCHXL-CC2640R2 Mfr.: Texas Instruments	20
[OND4198] ALTERA FPGA Cyclone II EP2C5T144 System Development Board	25
[All4199] Digilent Nexys A7: FPGA Manufacturer : DIGILENT PN : 410-292	10
[BOA4200] ZedBoard Zynq-7000 ARM/FPGA SoC Development Board Manufacturer : DIGILENT MPN : 410-248	10

[BOA4201] TUL PYNQ-Z2 1M1-M000127DEV FPGA Board Manufacturer : TUL CORPORATION MPN : 1M1-M000127DEV	10
[All3331] NVIDIA Jetson Orin™ Nano Super Developer Kit NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores with 32 tensor cores 6-core Arm® Cortex-A78AE v8.2 64bit CPU 8GB 128bit LPDDR5 68 GB/s Supports for external NVMe 2x MIPI CSI-2 22-pin camera connectors 2x M.2 Key M, M.2 Key E, 4x USB 3.2 Gen2 Type-A, USB Type-C for UFP Gigabit Ethernet, DisplayPort microSD slot 40-pin expansion header DC power jack Manufacturer : NVIDIA MPN : 945-13766-0000-000.	2
List of Softwares	
Proteus Design Suite	1
Keil µVision - Open Source	1
AMD (Xilinx) Vivado Design Suite - Open Source	1

86” Display with Camera and VC system

- Brightness(Typ.) : 330 nits
- Resolution : ULTRA HD (3,840 x 2,160)
- Improved Design with Slim Depth
- webOS-based High Performance
- Easy Content Management/Group Management
- SuperSign Control / CMS Compatibility
- 1080p HD Webcam with 120 degree FOV and auto low-light correction
- Motorized pan/tilt/zoom with remote control
- Omnidirectional conference mic(12-15 ft pickup range)
- Built-in noise cancellation and echo reduction
- Desktop speakers or integrated sound bar

NVR WITH 64 CHANNEL

Processor	Quad-core embedded processor
Operating System	Embedded LINUX
Two-way Talk	1 Channel Input, 2 Channel Output, RCA
User Interface	GUI
Video Output	2 HDMI, 2 VGA
Video Resolution	HDMI1: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 VGA1: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 ; HDMI2/VGA2: 1920 × 1080
Video Recording	Max 320Mbps
Video Display Split	1st screen: 1/4/8/9/16/25/36 , 2nd screen: 1/4/8/9/16
Channel	64 channel
Motion Detection	MD Zones: 396(22×18).
Video Loss	supports
Alarm Input	16 Channel
Alarm Output	6 Channel
Smart Phone	iPhone, iPad, Android Phone
Hard Disk	4 SATA III ports, up to 10TB Each, 1 eSATA port
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Recording Mode	Manual, Schedule (Regular, MD (Motion Detection) , Alarm, IVS), Stop
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Backup Mode	USB Device/Network/eSATA Device
Playback	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Max User Account	128 users
Record Interval	1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec
Ethernet	2 RJ-45 Ports (10/100/1000Mbps) Independent
Interface Ports	2 USB Ports (2 Rear USB 3.0, 1 Front USB 2.0), 1 RS232, 1 RS485
Protocols	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, DH, IP Search , ONVIF 2.4, SDK, CGI
Power Supply	Single, AC 100~240V, 50/60 Hz
Power Consumption	<167W (without HDD)

Working Temp	-10 ~+55°C / 10~90%RH / 86~106kpa
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4MP CCTV Camera:

Image Sensor	1/2.8
Minimum Illumination	0.001 lux@F1.4 (Color, 30 IRE), 0.0001 lux@F1.4 (B/W, 30 IRE), 0 lux (IR on)
Effective Pixels	2688 (H) × 1520 (V)
Angle Adjustment	Pan: 0°–360°, Tilt: 0°–90°, Rotation: 0°–360°
Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
ROM	128 MB
Close Focus Distance	3.2 m
Gain Control(AGC)	Auto, Manual
Lens Type	Fixed-focal
Max. Aperture	F1.4
Lens Mount	M12
DORI Distance	124.0 m (Detect), 49.6 m (Observe), 24.8 m (Recognize), 12.4 m (Identify)
Video Format	PAL/NTSC
OSD	Camera title, Date & Time
Lens	6mm Fixed Lens
Angle of view	H: 49°, V: 26°, D: 57°
S/N Ratio	>56dB
Video Compression	Instastream, H.265, H.264, H.264H, H.264B, MJPEG (only supported by the sub stream)
Back Light Compensation	BLC/ HLC/ DWDR
Day/Night	Auto(ICR)/Color/B/W
IR	IR Range of 60 Mtr.
IR Number	4 IR LED
Smart IR	Support
Resolution	4MP (2688 × 1520)/ (2560 × 1440), 3MP (2304 × 1296), 2MP (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 × 576 / 704 × 480), VGA (640 × 480), CIF (352 × 288/ 352 × 240)
stream Capability	Triple stream
Frame Rate	Main stream: 4MP (2688 × 1520)@1-25/30fps/ (2560 × 1440)@1-25/30fps Sub stream 1: 720P(1280 × 720), D1 (704 × 576)@1–25fps/ (704 × 480)@1–30fps, VGA(640 × 480)@1-30fps, CIF (352 × 240)@1-30fps/ (352 × 288) @1-25fps Sub stream 2: D1 (704 × 576)@1–25 fps/ (704 × 480)@1–30fps, VGA(640 × 480)@1-30fps, CIF (352 × 240)@1-30fps/ (352 × 288) @1-25fps

Noise Reduction	2D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Audio Compression	G.711a, G.711Mu, PCM, G.726, AAC
Mirror Function	Support
Bit Rate	H.265: 3 kbps-6144 kbps, H.264: 8 kbps-6144 kbps
Bit Rate Control	CBR/VBR
Protocol	SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP V3, TLS Version 1.2, TCP/IP, PPPoE, NFS, UDP, ICMP, IGMP, SSL, DHCP, SMTP, RTSPS, ONVIF (Profile S, Profile G, Profile T), unicast, multicast
Ethernet	RJ-45 (10/100 Base-T)
SDK and API	Support
Alarm Event	Network disconnection, IP conflict, illegal access, Motion detection, Video tampering, Audio detection, SMD (human & Motor Vehicle), Security exception
Cyber Security	AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, WSSE, account lockout, syslog, video encryption, IP/MAC filtering, HTTPS, trusted upgrade, trusted boot
Browser	IE, Chrome, Firefox
IR Control	Auto, Manual
Image Rotation	4MP only support 0°/180° 2MP & lower will support 0°/90°180°/270°
Smart search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Iris Control	Fixed
User/Host	6 (Total bandwidth: 36 M)
Weatherproof Standard	IP67
Certificates	ISO 9001: 2015, ISO 20000-1 : 2018, CE, FCC and RoHS, BIS, STQC approved compliance report
Power Source	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2 W (12 VDC); 2.9 W (PoE) Max. (H.265 + intelligence on+ DWDR + illuminator intensity): 5.3W (12 VDC), 6.8 W (PoE)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Casing	Metal

Technical Specifications for Notebook (Laptop):

Processor	
Processor Make	Intel Core Ultra 7 255U.
Number of Cores Per Processor	(12 MB cache, 12 cores, up to 5 GHz Turbo) or higher.
Motherboard	Compatible OEM Motherboard.
Operating System	
Operating System	Pre installed Window 11 Pro
Certifications to Be Enclosed	BIS Certified, UL, FCC, RoHS, Energy Star certificate, MIL- STD 810H (Min. 11 basic tests passed) or better, EPEAT India Registered.
	ISO 9001:2008, ISO 14001, ISO 27001 & ISO 45001 certification for OEM or better.
Memory	
Type of RAM	DDR5.
Ram Size (GB)	32 GB RAM or higher.
Ram Speed (MHz)	5600 MHz or better.
Ram Expandability	Up to 64 GB.
Storage	
Type of Storage Used To Populate the Internal Bays	NVMe SSD.
Total Storage Capacity (GB)	2 TB M.2 NVMe SSD or higher.
Ports & Connectivity	
Wired Connectivity	10/100/1000 Ethernet Port.
Wi-Fi Connectivity	Wi-Fi 6E, 2x2, 802.11ax or better.
Version of Bluetooth Available	Bluetooth 5.0 or better.
Number of Type C Ports	Min 1 x 3.2 Gen2 Type-C Thunderbolt 4 or better.
Number of HDMI Ports	1 HDMI, 1 Universal Audio Jack, Noble Wedge Lock slot or higher.
Number of USB Ports Version 3.0 Or Above	Min 2 USB ports with minimum USB 3.2 Type A or better.
Display	
Display Size (Inches)	Maximum 15.6inc
Display Type	16:10 FHD (1920 x 1200), WVA/IPS.
Panel Technology	Non-Touch with Anti-Glare, Min 300 Nits or better.
Input Devices	Spill resistant Backlit Keyboard with Touchpad.
Graphics	Integrated Graphics.

Audio	Integrated Audio with 2 x 2W Internal speakers.
Battery	Min 3-cell, 50 WHr, Li-ion, Battery or better.
Webcam	Integrated Full HD Camera Webcam.
Security	Hardware TPM 2.0 (Hardware)
Accessories	To be supplied with required connecting cables and power cable and High quality leather carry bag
WARRANTY	
Manufacturer Warranty	03 Years Onsite Warranty from OEM.
SUPPORT	OEM must have online system hardware diagnostics facility and facility to download updates of software, device drivers, and firmware on its website
	Specifications and warranty of the offered Desktop should be available through serial number search / tracking on the website of the OEM.
OEM TOOL	OEM must provide an Artificial Intelligence based tool to improve the user experience with app performance optimization, network connectivity Optimization & privacy optimization.
OEM Website	Product must be available on OEM Website.
OEM Criteria	OEM should be ranked in IDC top vendors list.

CSE Lab 1 BoQ

Sl.No.	Description	Qty
1	Highend Desktops (i7)	22
2	Display 75" with OPS	1
3	Instructure table	1
4	Instructure Chair	1
5	Network Cabling	1
6	Wall Speakers, Wall panel with Mic	4
7	Collar Mic	1
8	Chairs and Table - Lab	27
9	Highend Workstation	5

Technical Specifications:

Highend Desktops:

Component	Specification Details
Processor	Processor 14 th Gen Intel Core i7
Core	10 Cores or Higher
Chipset	Intel Q series Chipset
RAM	32 GB (1*32GB) DDR5 upto 3200 MT/s or higher (Min 2 slots: One populated and Minimum one spare upgradeable upto 64 GB)
Storage	1 TB SSD
GPU	4GB Graphics card
Expansion Slots	Min 3 PCIe Slots with minimum 1 x PCIe 4.0 x16 Slot, M.2 slot (for SSD): 1, M.2 slot (for WLAN): 1
Operating System	Pre installed Window 11 Pro
OS Support	Window 11 Pro
Mouse & Keyboard	USB Mouse & Keyboard from same OEM
Monitor	23.8 inch" or higher FHD Monitor with in-height adjustability from the same OEM
Bluetooth	Bluetooth-5.0 Enabled from OEM
Power Supply	Min. 180W 80PLUS internal Power Supply Unit (PSU)
Form Factor	Tower type with Hardware TPM 2.0
Ports	Min 8 USB port including min 2 USB 3.2 gen, 1 Type-C, 1 DP port, 1 Ethernet port, 1 HDMI
BIOS Security	Power-on password & Administrator password
Hardware Security	Security Slot, Cable lock with MIL STD Certified
Warranty	3 Years Onsite OEM warranty
Certification/ Support	OEM should have valid India BIS license of Product
Green Certifications	Energy star, EPEAT India Certified for Desktop & Monitor, ISO 9001:2008 Certification for OEM or Better
Mother Board	Logo of OEM should be embossed on mother board no sticker
Manageability	Integrated utility to change BIOS Setting of a device using GUI and Drivers should be available on OEM website for download
LAN	2.5 Gigabit LAN 10/100/1000/2500 Mb/s

75" Display

Display	Panel Size: 75"
	Panel Type: TFT LCD Module with DLED Backlight
	Display Area (mm): 1649.664(H) × 927.936(V) (74.5")
	Aspect Ratio: 16:9
	Resolution: UHD 3840x2160(Pixels)
	Colors: 1.07G colors (8-bit + FRC)
	Brightness: 450 nits

	Contrast Ratio: 5000:1 (max. with DCR enabled)
	Response Time: 8ms
	Viewing Angles: H=178, V=178
	Backlight Life: 50,000 Hours
	Surface Treatment: Hardness: 9H Anti-glare coating
	Orientation: Landscape
Platform	Processor: Octa-core
	RAM: 8GB DDR4
	Storage: 128GB
Touch	Type/ Tech: Ultra Fine Touch Technology
	Touch Point: Windows: 40 Android: 40
INPUT	HDMI: x2 (Frontx1:HDMI2.0 with CEC ; Rearx1: [HDMI2.0 with CEC/ ARC]x1]
	RGB / VGA: x1
	Audio: x1
	RS232: x1
	SD/SDHC: x1
	OPS: x1 (Optional Intel Standard OPS)
OUTPUT	HDMI: x1
	Audio: x1
	SPDIF: x1
	LAN
	RJ45: x1
USB	Type A: USB3.2 Gen 1:Front x2 , Rear x2 (all support SmartPort)
	USB2.0:Rear x1
	Type B: USB 2.0:Frontx1, Rear x1
	Type C: USB 2.0: Front x1 with PD15W
	SPEAKERS
	20W x 2
Embedded OS	Android 14 (EDLA)
	Power
	Voltage: 100-240V AC
	Consumption: On:175W(Normal) ; Off: <0.5W
	ERGONOMICS
OPERATING CONDITIONS	Temperature (° C): 0°C to 40°C
	Humidity: 20% ~ 80% RH non-condensing
REGULATIONS	BIS, Energy Star, RoHS, TUV ISO9001,14001,45001,27001,50001

Instructor Table

Dimensions: 1199W X 590D X 735H

Top-Work Surface-The Panels are made from 18+-0.5mm thk pre - laminated Boards as per with 2mm thick PVC Edge banding an all sides .

Under Structure - C frame -Made from 0.9+-mm thk powder coated 50microns CRCA MS.

Tublar frame -Dia 25.4+-0.3mm x 1.2+/-0.096 mm thk MS ERU tube.

Modesty Panel-Made from 1.0+-0.09mm thk powder coated 50microns CRCA MS
Storage made up 0.6mm thick CRCA MS sheet with one drawer unit of overall size 355.5W x 559D x 433.5H and three drawer option on one side.

Drawer Tray & Back -0.5mm Thk CRCA

Drawer front -0.6mm Thk CRCA

Lock - Cam Lock

Product Certificates : Green Guard, GRIHA, Indoor Advantage Gold, Green Pro and ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.

Instructor Chair:

SEAT/BACK ASSEMBLY: The seat is made up of 1.5 ±0.1 cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat has extra thick foam on front edge to give comfort to popliteal area.

The Back is injection moulded in glass filled Polypropylene which is upholstered with Mesh fabric. The back consist of adjustable lumbar support made of injection moulded Polypropylene having an adjustment of 5.0 ±0.1 cm. The chair seat & back size are SEAT SIZE - 53.5 cm. (W) x 51.0 cm. (D) MESH BACK SIZE - 51.0 cm. (W) x 70.0 cm. (H).**HIGH RESILIENCE (HR) POLYURETHANE FOAM:** The HR polyurethane seat foam is moulded with density 45±2 kg/m³ and hardness 16±2 kgf as per IS:7888 for 25%compression.

ARMRESTS : The height adjustable armrest is made of glass filled Nylon and can be adjusted to 6.0±0.1 cm height. It also has swivel and To and Fro adjustment with moulded PU armtop.**CENTER TILT SYNCHRO MECHANISM WITH SEAT SLIDE & MULTI LOCK:** The mechanism is designed with the following features: 360° revolving type.3 position locking with anti-shock mechanism. Tilt tension adjustment.



PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment with an adjustment stroke of 9.5 ± 0.3cm. **PEDESTAL ASSEMBLY:** The pedestal should be injection moulded in glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal pitch-center dia is 66.1 ± 0.5 cm. with castors).

TWIN WHEEL CASTORS : The twin wheel soft castors are injection moulded in black Nylon.

Product Certificates : ANSI Level-2, Greenpro-CII Green Products, Indoor Air Quality -Indoor Advantage Gold, Green Guard UL 2818 - 2022 Standard for Chemical

Emissions, AIOTA, BIFMA, Test Certificate, Warex Certificate, ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015

Computer Table and Chair

Image	Item Name	Item Specification
	Computer Chair	SEAT: PU MOULDED AND PLYWOOD HOT COMPRESSED UPHOLSTERED WITH FABRIC BACKREST: ERGONOMICALLY DESIGNED AND UPHOLSTERED WITH MESH FABRIC LUMBER SUPPORT: 1D ADJUSTABLE UPHOLSTERED WITH FABRIC AND MOULDED PU MECHANISM: MS SYNCHRO WITH LOCKING AND TENSION ADJUSTMENT GASLIFT/BASE/CASTOR: CLASS 4 85MM/STARK NYLON 26 INCH/NYLON 50MM TWIN WHEEL WITH SMALL HUB
	Computer Table with Glass Partition	Each Top Size-1200x600mm Front Glass: 1100 x 300mm & Side Glass : 550x300mm Base made of 50 x 50 mm powder coated MS Cross bars 40 x 20 mm powder coated MS sheet raceway: Dual Channel Perforated Side Cover: 300mm Height Table Top 25mm PLPB with 2mm Thick Edge Binding Table Top Finish: Matte Wire Management using MS tray under top Channel Cut out ideally suited for 8 model anchor and 2 model dlink, Fully Modular workstation

Highend Workstation:

Specification Name	Values
Form Factor	Tower
Processor Make	Intel
Number of Processors	1
Processor Generation	Intel Xeon W5 or latest
Processor configuration	Intel Xeon W5 Processor, 16 Core, 33MB Cache, up to 4.7 GHz or higher
Chipset	Intel W790 Chipset or better. Motherboard should have the same Workstation OEM logo, no stickers allowed.

Type of Graphics	Dedicated
Graphic Card	Nvidia RTX 6000 Ada, 48 GB GDDR5, Graphics. The System should support Dual NVIDIA RTX 6000 Ada Generation, 48GB GDDR6 for future upgrade.
RAM	DDR5 or higher
Operating Frequency	4800 or higher
RAM type	ECC
DIMM	8 or higher
RAM Size (GB)	128 GB, DDR5 or higher
Type of Hard Disk Drive	SSD & SATA
Size of SSD Disk Drive (GB)	1TB NVME SSD or higher
No of SSD Disk Drives - 1	1 or higher
Size of Hard Disk Drive (TB)	2TB or higher
No of Hard Disk Drives - 1	1 or higher
Operating System	Windows 11 Pro License for Workstations (6 cores plus) or latest (The offered Model to be cross verified on Microsoft website for OS Certification)
Software	Artificial Intelligence Based Performance optimizer software should be provided for improving the performance of the ISV or any application. (Document/ Datasheet required to support the above requirement)
OS Certifications	Windows, Ubuntu Linux (The offered Model to be cross verified on Microsoft & UBUNTU website for OS Certification)
ROHS Compliance	Yes
EPEAT	EPEAT Gold, India Registered or higher
Applications	ISV Certified
BIS Registration	Yes
Networking Interface	Single Gigabit NIC 1G & Single Gigabit NIC 10G or higher
HDMI Port	3 or higher (adapter if not HDMI Port on board)
RJ-45	WiFi6 + Support for QSFP Port, 1x 1G 1x 10G or higher
USB C Port	5 or higher
No. of USB 3.2 Port (No.)	5 or higher
PCIe Slots	Minimum 5 PCIe Slots including 2 x PCIe x16 Slots Gen 4 or higher
Display (antiglare, LED-backlit)	Monitor
Display Type	Non- Touch
Display Size (cm)	32" or higher
Panel Type	FHD or higher
Display Resolution (Full HD or better) (Pixel)	1920x1080 or better
Power (Watt)	1350W or higher
Power Management Unit	Power Manager

Keyboard	Same OEM make USB Multimedia Keyboard or better
Mouse	Same OEM make USB Optical Mouse or better
Security	Chassis intrusion switch, Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM or higher
On site OEM warranty (Year)	3 Years Onsite.

Wall Mount Speakers with Wall panel & RJ 45 Junction Box

SITC of Min 5" 2 way active speaker system/ speaker pair with Min RMS power of 2x20 Watts, Dynamic power handling of 2x40 Watt, frequency response (± 3 dB) 80Hz up to 20 kHz and the sensitivity (1W/1m) 89 dB or better and Max SPL of 105 dB or more. Speaker should have atleast one unbalanced & balanced stereo inputs and additional wall panel input to connect mic/line level signal, should have HxV dispersion 210 x 205 degree or better, CE Certification or more

Wall panel with Mic & Line connectivity

RJ45 junction box for wall panel to speaker connectivity

Headworn/Collar Mic

Supply of Digital Wireless UHF Headset microphone set with Rack receiver having 56 MHz or higher of switching bandwidth and equidistant spacing enables up to 90 channels or more along with 2,240 selectable frequencies for fine tuning. It should have auto scan feature for efficient connections to reduce time and effort. It should have min 100-meter transmission range. It should have cardioid pick-up pattern, Sound pressure level (SPL) : 150 dB or more, System Latency: 1.9 ms, Dynamic range: 130 dB and frequency response: 20Hz- 20000 Hz. The microphone system can be controlled through ios / Android applications via bluetooth. It should have 12 hours of operation life and more.

CSE Lab2 BoQ

Sl.No.	Description	Qty
1	Highend Desktops (i7)	30
2	Display 75"	1
3	Instructure table	1
4	Instructure Chair	1
5	Network Cabling	1
6	Chairs and Table - Lab	35
7	Highend Workstation	5

Technical Specifications:

Highend Desktops:

Component	Specification Details
Processor	Processor 14 th Gen Intel Core i7
Core	10 Cores or Higher
Chipset	Intel Q series Chipset
RAM	32 GB (1*32GB) DDR5 upto 3200 MT/s or higher (Min 2 slots: One populated and Minimum one spare upgradeable upto 64 GB)
Storage	1 TB SSD
GPU	Integratged Graphics
Expansion Slots	Min 3 PCIe Slots with minimum 1 x PCIe 4.0 x16 Slot, M.2 slot (for SSD): 1, M.2 slot (for WLAN): 1
Operating System	Pre-installed Window 11 Pro
OS Support	Window 11 Pro
Mouse & Keyboard	USB Mouse & Keyboard from same OEM
Monitor	23.8 inch" or higher FHD Monitor with in-height adjustability from the same OEM
Bluetooth	Bluetooth-5.0 Enabled from OEM
Power Supply	Min. 180W 80PLUS internal Power Supply Unit (PSU)
Form Factor	Tower type with Hardware TPM 2.0
Ports	Min 8 USB port including min 2 USB 3.2 gen, 1 Type-C, 1 DP port, 1 Ethernet port, 1 HDMI
BIOS Security	Power-on password & Administrator password
Hardware Security	Security Slot, Cable lock with MIL STD Certified
Warranty	3 Years Onsite OEM warranty
Certification/ Support	OEM should have valid India BIS license of Product
Green Certifications	Energy star, EPEAT India Certified for Desktop & Monitor, ISO 9001:2008 Certification for OEM or Better
Mother Board	Logo of OEM should be embossed on mother board no sticker
Manageability	Integrated utility to change BIOS Setting of a device using GUI and Drivers should be available on OEM website for download
LAN	2.5 Gigabit LAN 10/100/1000/2500 Mb/s

75" Display

Display	Panel Size: 75"
	Panel Type: TFT LCD Module with DLED Backlight
	Display Area (mm): 1649.664(H) x 927.936(V) (74.5")
	Aspect Ratio: 16:9
	Resolution: UHD 3840x2160(Pixels)
	Colors: 1.07G colors (8-bit + FRC)
	Brightness: 450 nits
	Contrast Ratio: 5000:1 (max. with DCR enabled)

	Response Time: 8ms
	Viewing Angles: H=178, V=178
	Backlight Life: 50,000 Hours
	Surface Treatment: Hardness: 9H Anti-glare coating
	Orientation: Landscape
Platform	Processor: Octa-core
	RAM: 8GB DDR4
	Storage: 128GB
Touch	Type/ Tech: Ultra Fine Touch Technology
	Touch Point: Windows: 40 Android: 40
INPUT	HDMI: x2 (Frontx1:HDMI2.0 with CEC ; Rearx1: [HDMI2.0 with CEC/ ARC)x1]
	RGB / VGA: x1
	Audio: x1
	RS232: x1
	SD/SDHC: x1
	OPS: x1 (Optional Intel Standard OPS)
OUTPUT	HDMI: x1
	Audio: x1
	SPDIF: x1
	LAN
	RJ45: x1
USB	Type A: USB3.2 Gen 1:Front x2 , Rear x2 (all support SmartPort)
	USB2.0:Rear x1
	Type B: USB 2.0:Frontx1, Rear x1
	Type C: USB 2.0: Front x1 with PD15W
	SPEAKERS
	20W x 2
Embedded OS	Android 14 (EDLA)
	Power
	Voltage: 100-240V AC
	Consumption: On:175W(Normal) ; Off: <0.5W
	ERGONOMICS
OPERATING CONDITIONS	Temperature (° C): 0°C to 40°C
	Humidity: 20% ~ 80% RH non-condensing
REGULATIONS	BIS, Energy Star, RoHS,TUV ISO9001,14001,45001,27001,50001

Instructor Table

Dimensions: 1199W X 590D X 735H

Top-Work Surface-The Panels are made from 18+-0.5mm thk pre - laminated Boards as per with 2mm thick PVC Edge banding an all sides .

Under Structure - C frame -Made from 0.9+-mm thk powder coated 50microns CRCA MS.

Tublar frame -Dia 25.4+-0.3mm x 1.2+/-0.096 mm thk MS ERU tube.

Modesty Panel-Made from 1.0+-0.09mm thk powder coated 50microns CRCA MS

Storage made up 0.6mm thick CRCA MS sheet with one drawer unit of overall size 355.5W x 559D x 433.5H and three drawer option on one side.

Drawer Tray & Back -0.5mm Thk CRCA

Drawer front -0.6mm Thk CRCA

Lock - Cam Lock

Product Certificates : Green Guard, GRIHA, Indoor Advantage Gold, Green Pro and ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015, Warex Certificate & Test Certificate.

Instructor Chair:

SEAT/BACK ASSEMBLY: The seat is made up of 1.5 ±0.1 cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The seat has extra thick foam on front edge to give comfort to popliteal area.

The Back is injection moulded in glass filled Polypropylene which is upholstered with Mesh fabric. The back consists of adjustable lumbar support made of injection moulded Polypropylene having an adjustment of 5.0 ±0.1 cm. The chair seat & back size are SEAT SIZE - 53.5 cm. (W) x 51.0 cm. (D) MESH BACK SIZE - 51.0 cm. (W) x 70.0 cm. (H).HIGH RESILIENCE (HR)

POLYURETHANE FOAM: The HR polyurethane seat foam is moulded with density 45±2 kg/m³ and hardness 16±2 kgf as per IS:7888 for 25%compression.

ARMRESTS : The height adjustable armrest is made of glass filled Nylon and can be adjusted to 6.0±0.1 cm height. It also has swivel and To and Fro adjustment with moulded PU armtop. CENTER TILT SYNCHRO MECHANISM WITH SEAT SLIDE &

MULTI LOCK: The mechanism is designed with the following features: 360° revolving type.3 position locking with anti shock mechanism. Tilt tension adjustment.



PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment with an adjustment stroke of 9.5 ± 0.3cm.

PEDESTAL ASSEMBLY: The pedestal should be injection moulded in glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal pitch-center dia is 66.1 ± 0.5 cm. with castors).

TWIN WHEEL CASTORS : The twin wheel soft castors are injection moulded in black Nylon.

Product Certificates : ANSI Level-2, Greenpro-CII Green Products, Indoor Air Quality -Indoor Advantage Gold, Green Guard UL 2818 - 2022 Standard for Chemical Emissions, AIOTA, BIFMA, Test Certificate, Warex Certificate, ISO : 13485:2016, ISO : 45001 : 2018, ISO : 50001 : 2018, ISO : 14001 : 2015, ISO : 9001 : 2015

Computer Table and Chair

Image	Item Name	Item Specification
	Computer Chair	SEAT: PU MOULDED AND PLYWOOD HOT COMPRESSED UPHOLSTERED WITH FABRIC BACKREST: ERGONOMICALLY DESIGNED AND UPHOLSTERED WITH MESH FABRIC LUMBER SUPPORT: 1D ADJUSTABLE UPHOLSTERED WITH FABRIC AND MOULDED PU MECHANISM: MS SYNCHRO WITH LOCKING AND TENSION ADJUSTMENT GASLIFT/BASE/CASTOR: CLASS 4 85MM/STARK NYLON 26 INCH/NYLON 50MM TWIN WHEEL WITH SMALL HUB
	Computer Table with Glass Partition	Each Top Size-1200x600mm Front Glass: 1100 x 300mm & Side Glass : 550x300mm Base made of 50 x 50 mm powder coated MS Cross bars 40 x 20 mm powder coated MS sheet raceway: Dual Channel Perforated Side Cover: 300mm Height Table Top 25mm PLPB with 2mm Thick Edge Binding Table Top Finish: Matte Wire Management using MS tray under top Channel Cut out ideally suited for 8 model anchor and 2 model dlink, Fully Modular workstation

Highend Workstation:

Specification Name	Values
Form Factor	Tower
Processor Make	Intel
Number of Processors	1
Processor Generation	Intel Xeon W5 or latest
Processor configuration	Intel Xeon W5 Processor, 16 Core, 33MB Cache, up to 4.7 GHz or higher
Chipset	Intel W790 Chipset or better. Motherboard should have the same Workstation OEM logo, no stickers allowed.
Type of Graphics	Dedicated

Graphic Card	Nvidia RTX 6000 Ada, 48 GB GDDR5, Graphics. The System should support Dual NVIDIA RTX 6000 Ada Generation, 48GB GDDR6 for future upgrade.
RAM	DDR5 or higher
Operating Frequency	4800 or higher
RAM type	ECC
DIMM	8 or higher
RAM Size (GB)	128 GB, DDR5 or higher
Type of Hard Disk Drive	SSD & SATA
Size of SSD Disk Drive (GB)	1TB NVMe SSD or higher
No of SSD Disk Drives - 1	1 or higher
Size of Hard Disk Drive (TB)	2TB or higher
No of Hard Disk Drives - 1	1 or higher
Operating System	Windows 11 Pro License for Workstations (6 cores plus) or latest (The offered Model to be cross verified on Microsoft website for OS Certification)
Software	Artificial Intelligence Based Performance optimizer software should be provided for improving the performance of the ISV or any application. (Document/ Datasheet required to support the above requirement)
OS Certifications	Windows, Ubuntu Linux (The offered Model to be cross verified on Microsoft & UBUNTU website for OS Certification)
ROHS Compliance	Yes
EPEAT	EPEAT Gold, India Registered or higher
Applications	ISV Certified
BIS Registration	Yes
Networking Interface	Single Gigabit NIC 1G & Single Gigabit NIC 10G or higher
HDMI Port	3 or higher (adapter if not HDMI Port on board)
RJ-45	WiFi6 + Support for QSFP Port, 1x 1G 1x 10G or higher
USB C Port	5 or higher
No. of USB 3.2 Port (No.)	5 or higher
PCIe Slots	Minimum 5 PCIe Slots including 2 x PCIe x16 Slots Gen 4 or higher
Display (antiglare, LED-backlit)	Monitor
Display Type	Non- Touch
Display Size (cm)	23.8" or higher
Panel Type	FHD or higher
Display Resolution (Full HD or better) (Pixel)	1920x1080 or better
Power (Watt)	1350W or higher
Power Management Unit	Power Manager
Keyboard	Same OEM make USB Multimedia Keyboard or

	better
Mouse	Same OEM make USB Optical Mouse or better
Security	Chassis intrusion switch, Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM or higher
On site OEM warranty (Year)	3 Years Onsite.

Annexure XXII

MAF TO BE SUBMITTED

Electronics and Communication Engineering

Sr. No.	Item Description	MaF (Yes/No)
1.	Almirah.	Yes
2.	Computer Chair.	Yes
3.	Computer Table	Yes
4.	Desktop (i9).	Yes
5.	Desktop (i7).	Yes
6.	Display (Interactive).	Yes
7.	Dry Erase Writing Board.	Yes
8.	Executive Table.	Yes
9.	High Back Chair.	Yes
10.	High End Projector.	Yes
11.	Notebook (Laptop).	Yes
12.	Pin-Up Notice Board.	NO
13.	Printer black and white multi-functional	NO

Department of VLSI and VDSE

SI.No.	Description	MaF (Yes/No)
1	High End Workstations	Yes
2	Desktop (i9, Wifi)	Yes
3	Networking (40x30 ft)	NO
4	2 Tn Air Conditioner	NO
5	6 KVA UPS (30 Min)	YES
6	HoD Table	Yes
7	HoD Chair	Yes

8	7 Seater Sofa Set with Center Table	Yes
9	File cabinet	Yes
10	Almirah	Yes
11	Revolving Chairs	NO
12	Locker (12 Cabinets)	Yes
13	Visitor Chairs	Yes
14	86" Screen with camera, Mic and Speakers (VC system)	Yes
15	CCTV Cameras (Night Vision)	Yes
16	NVR with 64 Channel	YES
17	Black and White Printer	Yes
18	Color MFP	Yes
19	Photo copier	YES
20	Development Boards and software	NO
21	Laptop	Yes

Department of CSE -1

Sl.No.	Description	MaF(Yes/No)
1	Highend Desktops (i7)	Yes
2	Display 75" with OPS	Yes
3	Instructure table	Yes
4	Instructure Chair	Yes
5	Network Cabling	No
6	Wall Speakers, Wall panel with Mic	Yes
7	Collar Mic	No
8	Chairs and Table - Lab	No
9	Highend Workstation	Yes

Department of CSE -2

Sl.No.	Description	MaF(Yes/No)
1	Highend Desktops (i7)	Yes
2	Display 75"	Yes
3	Instructure table	Yes
4	Instructure Chair	Yes
5	Network Cabling	No
6	Chairs and Table - Lab	No
7	Highend Workstation	Yes