



NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web: www.nitt.edu

Phone: 0431-2503800, 9486001183

e-Procurement Notice

Ref: NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG

Dated:29-11-2023

Online tenders are hereby invited in two Bid system from Indian Nationals for the **SUPPLY, INSTALLATION, INTEGRATION, TESTING, COMMISSIONING OF SMART CLASSROOM SOLUTION IN ORION COMPLEX, LOGOS COMPLEX, COMMON HALLS, ACADEMIC DEPARTMENT SEMINAR HALLS.**

Bidders can download complete set of bidding documents from e- procurement Platform <https://eprocure.gov.in/eprocure/app> from 29-11-2023 @ 6.55 P.M. onwards. Bidders need to submit the bids online for the interested items by uploading all the required documents through <https://eprocure.gov.in/eprocure/app>.

Last Date/ Time for receipt of bids through e-procurement is: 19-12-2023@5 p.m. (Server time). Late bids shall not be accepted.

For further details regarding Tender Notification & Specifications please visit website:

<https://eprocure.gov.in/eprocure/app> and www.nitt.edu

CRITICAL DATE SHEET

Published Date	29-11-2023 @ 6.55 P.M
Bid Document Download Start Date	29-11-2023 @ 6.55 P.M
Clarification Start Date	Not Applicable
Clarification End Date	Not Applicable
Pre-bid meeting	05-12-2023 @ 3.00PM
Venue of Pre-bid Meeting	Third 'i' Building, CSG Complex
Bid Submission Start Date	29-11-2023 @ 6.55 P.M
Bid Submission End Date	19-12-2023 @ 5 P.M
Bid Opening Date(Technical)	20-12-2023 @ 5 P.M
PoC Demo Dates for Primary Equipment's	27-12-2023 10 A.M to 29-12-2023 5 P.M and 02-01-2024 10 A.M to 03-01-2023 5 P.M
Bid Opening Date(Price)	Will be announced after technical evaluation

Note: *Bidder should submit the EMD as specified in the tender. The hard copy should be posted / couriered / deposit in person to the Central Dispatch section / Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the DD/Bank guarantee should be uploaded as part of the offer. Exemptions shall be given as per Govt.Guidelines.

This E-Tender is created and published as per the Recommendations and Approval of the respective Purchase Committee. For further queries / clarifications please contact the contact details available in Section III. BID Data Sheet (BDS).

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

DEPARTMENT OF COMPUTER SUPPORT GROUP

Web: www.nitt.edu

Phone: 0431-2503800, 9486001183



Tender Document (e - Procurement)

Tender Notification No	:	NITT/F.No.031,32-A,35,37-B/HEFA/2019-20/CSG
Date	:	29-11-2023
Name of the Department	:	COMPUTER SUPPORT GROUP
Name of the component	:	<i>SUPPLY,INSTALLATION,INTEGRATION,TESTING,COMMISSIONING OF SMART CLASSROOM SOLUTION IN ORION COMPLEX,LOGOS COMPLEX,COMMON HALLS,ACADEMIC DEPARTMENT SEMINAR HALLS</i>
Quantity required	:	Lump sum
EMD Amount	:	7,58,000/-
Last Date & Time of submission of Tender	:	19-12-2023 @ 5 P.M
Address for submission of Tender	:	THE DIRECTOR, NIT-TIRUCHIRAPPALLI- 15 KIND ATTENTION TO: Shri. T. Karthick Raja, Technical Officer, DEPARTMENT OF COMPUTER SUPPORT GROUP
Date & Time of opening of technical bid	:	20-12-2023 @ 5 P.M

Checklist for Bid / Tender Submission

(The following check-list must be filled in and submitted with the bid documents)

Sl.No.	Particulars	Yes / No
1.	Have you attached the techno commercial unpriced bid form duly filled in appropriately?	
2.	Have you attached a copy of the last three years audited balance sheet of your firm	
3.	Have you attached the copy of the GSTIN certificate	
4.	Have you attached the details of the income tax return certificate, proof of manufacturing unit/ dealership letter/ general order suppliers and copy of Central / State sales tax registration certificate?	
5.	Have you attached the copies of relevant work orders?	
6.	EMD: Have you submitted EMD asked for (as specified in BDS). If the bidder requesting EMD exemption, kindly attached copy of the NSIC / MSE (Micro & Small enterprises register in UDYAM Portal), Certificate should be visible, if not visible the bidder will be disqualified). <u>Manufacturer</u> for goods, service provider for <u>Services</u> are only eligible for EMD exemption (Micro and Small enterprises). Traders / Distributors / Sole Agents & Medium Enterprises are excluded from EMD exemption. Please refer MSME Rules regarding Exemption.	
7.	Startup company exempted from Prior turnover & Prior Experience (Startup certificate registered with DIPP should be enclosed)	
8.	Have you uploaded Manufacturer Authorization Form for mentioned items? (Ref Page No. 64) (If not uploaded, the bidder will be disqualified).	
9.	Have you Attached Make In India Declaration Form (Format Annexure 72, Ref Page No. 83,84)	
10.	Have you uploaded filled in Technical forms in Excel sheet	
11.	Have you uploaded the PDF of filled in Technical form of Excel Sheet	
12.	Have you submitted samples of all items indicated in the respective schedule of requirements at the address of tender inviting authority within due date.(if applicable as mentioned in the specification and requirements)	
13.	Have you enclosed the schedule of requirement indicating the make offered without indicating the pricing components along with the techno commercial unpricedbid?	
14.	Have you submitted the bids both techno commercial unpriced and priced bid separately for each tender?	
15.	Have you enclosed the statement of deviations from financial terms and conditions, if any?	
	PRICE BID	
1.	Have you signed and attached the priced bid form?	
2.	Have you attached the schedule of requirements duly priced?	

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Part - 1 Bidding Procedures

NIT, Tiruchirappalli

Section I: Instructions for Online Bid Submission

Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>.

1. Possession of valid Digital Signature Certificate (DSC) and enrollment / registration of the contractors / bidders on the e-Procurement/e-tender portal are prerequisite for e-tendering.
2. Bidder should register for the enrollment in the e-Procurement site using the “Online Bidder Enrollment” option available on the home page. Portal enrollment is generally free of charge. During enrollment / registration, the bidders should provide only valid and true information including valid E-mail id. All the correspondence shall be made directly with the contractors/bidders through E-mail id as registered.
3. Bidder need to login to the site through their user ID / password chosen during enrollment / registration.
4. Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY / TCS / nCode / eMudra or any other Certifying Authority recognized by Controller of Certifying Authorities (CCA) India on eToken / SmartCard, should be registered.
5. The registered DSC only should be used by the bidder in the transactions and should ensure safety of the same.
6. Contractor / Bidder may go through the tenders published on the site and download the tender documents/schedules for the tenders.
7. After downloading / getting the tender document/schedules, the Bidder should go through them carefully and then submit the documents as required, otherwise bid will be rejected.
8. Any clarifications may be sought online through the tender site, through the contact details or during pre-bid meeting if any. Bidder should take into account the corrigendum if any published before submitting the bid online.
9. Bidder may log in to the site through the secured login by the user id / password chosen during enrolment / registration and then by submitting the password of the e-Token / Smartcard to access DSC.
10. Bidder may select the tender in which he / she is interested in by using the search option and then move it to the ‘my tenders’ folder.
11. From my tender folder, he / she may select the tender to view all the details uploaded there.
12. It shall be deemed that the bidder has read and understood all the terms and conditions before submitting the offer. Bidder should go through the tender schedules carefully and upload the documents as asked ; otherwise, the incomplete bid shall stand rejected.
13. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and ordinarily it shall be in PDF /xls / rar / jpg / dwf formats. If there is more than one document, all may be clubbed together and provided in the requested format. Bidders Bid documents may be scanned with 100 dpi with black and white option. It is advisable that each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip / rar and the same if permitted may be uploaded. The file size being less than 1 MB the transaction uploading time will be veryfast.
14. The Bidders can update well in advance, the documents such as certificates, annual report details etc., under “My Space option” and these can be selected as per tender requirements

and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.

15. Bidder should submit the Tender Fee / EMD as specified in the tender. The hard copy should be posted / couriered / given in person to the Tender Inviting Authority, within bid submission due date and time as indicated in the tender. Scanned copy of the instrument should be uploaded as part of the offer.
16. The details of the DD / any other accepted instrument, physically delivered, should tally with the details available in the scanned copy and the data entered during bid submission time, otherwise submitted bid shall not be acceptable or liable for rejection.
17. The bidder has to select the payment option as offline to pay the Tender FEE / EMD as applicable and enter details of the instruments.
18. While submitting the bids online, the bidder shall read the terms and conditions and may accept the same to proceed further to submit the bid packets.
19. The bidder has to digitally sign and upload the required bid documents one by one as indicated. Very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read, understood and agreed with all clauses of the bid document including General conditions of contract without any exception.
20. The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid may be rejected.

PRICE BID

21. If the price bid format is provided in a spread sheet file like BoQ_XXXXX.xls, the rates offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Priced-bid / BOQ template shall not be modified / replaced by the bidder ; else the bid submitted is liable to be rejected for the tender.
22. The bidders are advised to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission due date and time (as per Server System Clock). The TIA shall not be held responsible for any delay or the difficulties faced during the submission of bids online by the bidders.
23. The time settings fixed in the server side and displayed at the top of the tender site, shall remain valid for all actions of requesting, bid submission, bid opening etc., in the e-Tender system. The bidders should follow such time during bid submission.

EVIDENCE FOR ONLINE BID SUBMISSION

24. After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number indicated by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and also be used as entry pass to participate in the bid opening.
25. All the data being entered by the bidders would be encrypted using Public Key Infrastructure (PKI) encryption techniques to ensure the secrecy of the data. The data entered is not retrievable by unauthorized persons during the bid submission and until the time of bid opening by any person.
26. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers’ public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

27. The confidentiality of the bids is maintained with the use of Secured Socket Layer (SSL) 128 bit encryption technology. Data storage encryption of sensitive fields is done.
28. The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.
29. For any queries regarding e-Tendering process, the bidders may contact at address as provided in the tender document. Parallely for any further queries, the bidders are advised to contact over phone : **1-800-233-7315, 0120-4001005** or send an E-mail to cppp-nic@nic.in.

NIT, Tiruchirappalli

Section II : Instructions to Bidders

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Section II. Instructions to Bidders

	A.General	
1	SCOPE OF BID	
		Supply and Installation of <i>SUPPLY, INSTALLATION, INTEGRATION, TESTING, COMMISSIONING OF SMART CLASSROOM SOLUTION IN ORION COMPLEX, LOGOS COMPLEX, COMMON HALLS, ACADEMIC DEPARTMENT SEMINAR HALLS</i> as per Specifications. Through out these Bidding Documents unless the context otherwise requires : “ a. ‘in writing ’ means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt; b. ‘ Institution means National Institute of Technology, Tiruchirappalli’
2	ELIGIBLE BIDDERS	
	2.1	A Bidder may be a firm, a company, a Limited Liability Partnership (LLP), a government-owned entity or any combination of such entities in the form of a Joint Venture (JV) under an existing agreement.
	2.2	In the case of a joint venture, all members shall be jointly and severally liable for the execution of the contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and during the contract execution in the event the JV is awarded the contract.
	2.3	A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this bidding process, if the Bidder:
	a	directly or indirectly controls, is controlled by or is under common control with another Bidder; or
	b	receives or has received any direct or indirect subsidy from another Bidder; or
	c	has the same legal representative as another Bidder; or
	d	has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the bid of another Bidder, or influence the decisions of the Purchaser regarding this bidding process; or
	e	Participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid shall result in the disqualification of all Bids in which such Bidder is involved. This, however does not limit the inclusion of the same subcontractor in more than one bid; or
	f	Has a close business or family relationship with a professional staff of the Purchaser (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding documents or specifications of the contract, and/or the bid evaluation process of such contract; or (ii) would be involved in the implementation or supervision of such contract.
	2.4	A foreign firm and individual may be ineligible if as a matter of law or regulations, India prohibits commercial relations with the country of bidder.
	2.5	A Bidder shall provide such evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
3	CONTENTS OF BIDDING DOCUMENT	
	3.1	The Bidding Documents consist of Parts 1, 2, 3 and 4, which include all the Sections indicated below, and should be read in conjunction with any Addenda if any, issued.

	3.2	The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
	3.3	Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre- Bid meeting (if any), or Addenda to the Bidding Document. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
	3.4	The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents and to furnish with its Bid all information or documentation as required by the Bidding Documents.
4	CLARIFICATION OF BIDDING DOCUMENTS, SITE VISIT, PRE-BID MEETING	
	4.1	A Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address specified in the BDS or raise its enquiries during the pre-bid meeting if provided. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of bids within a period specified in the BDS.
	4.2	The Bidder is advised to visit and examine the project site and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for procurement of Goods. The costs of visiting shall be at the Bidder's own expense
	4.3	The Bidder's designated representative is invited to attend a pre-bid meeting. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
	4.4	The Bidder is advised to submit any questions in writing to reach the Purchaser not beyond one week preceding the meeting.
	4.5	Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Documents. Any modification to the Bidding Documents that may become necessary as a result of the pre-bid meeting shall be made by the Purchaser exclusively through the issue of an addendum and not through the minutes of the pre-bid meeting. Absence in the pre-bid meeting shall not be a cause for disqualification of a Bidder.
5	Amendment of Bidding Document	
	5.1	At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by corrigendum. In case of e-procurement, corrigendum / amendment shall be published on https://eprocure.gov.in/eprocure/app .
	5.2	Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents from the Purchaser. The Purchaser shall also promptly publish the addendum on the Purchaser's webpage.
	5.3	The Purchaser may, at its discretion to give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, extend the deadline for the submission of bids.
C.PREPARATION OF BIDS		
6	LANGUAGE OF BID :	
	The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the language specified in the BDS. Supporting documents and	

	printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.
7	Documents Comprising the Bid The tender/Bid shall be submitted online in two part, viz., Technical Bid and Commercial Bid.
7.1	TECHNICAL BID The following documents are to be scanned and uploaded as part of the Technical Bid as per the tender document:
a	Scanned copy of Tender Forms (Techno Commercial Un-Priced Bid) and Tender Acceptance Letter,);
b	Scanned copy of the completed Schedules
c	Scanned copy of Bid Security or copy of proof for submission of Tender Document Fee/ Earnest Money Deposit etc.;
d	Scanned copy of written confirmation authorizing the signatory of the Bid to commit the Bidder;
e	Scanned copy of documentary evidence establishing the Bidder's qualifications to perform the contract if its bid is accepted and the Bidder's eligibility to bid;
f	Scanned copy of <ul style="list-style-type: none"> i. documentary evidence, that the Goods and Related Services to be supplied by the Bidder are of eligible origin and ii. conform to the Bidding Documents, and iii. any other document required in the BDS;
g	Scanned copy of Pre-Qualification Details as per Section-IV like PAN/GST etc.
h	EMD Returning Form.
i	Mandate Form For Electronic Fund Transfer/RTGS Transfer.
j	Technical Bid. The Technical specifications format is s available in Excel sheet TECHNICAL.xls in this E-Tender document at https://eprocure.gov.in/eprocure/app . Bidders are advised to download TECHNICAL.xls and fill their specifications in the prescribed column and upload the same in the Technical bid along with other required documents. The hard copy of the filled in Technical specifications (Excel) to be scanned and to be uploaded in PDF.
7.2	COMMERCIAL BID The commercial bid comprises of: <ul style="list-style-type: none"> i. Scanned copy of Tender Form (Price Bid) ii. Price BID in the form of BoQ_XXXXX.xls. iii. Scanned copy of item wise break up of price bid. The Price bid format is provided a BoQ_XXXXX.xls along with this Tender Document at https://eprocure.gov.in/eprocure/app . Bidders are advised to download this BoQ_ XXXXX.xls and quote their offer/rates in the prescribed column. Bidders shall quote Basic Price and taxes/levies in INR only, in the prescribed column and upload the same in the commercial bid.
7.3	The Bidder shall furnish in the Tender Forms information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.
8	Tender Forms (Technical and Price) and Price Schedule(BOQ)

		Tender Forms and Price Schedules (Bill of Quantity-BOQ) shall be prepared using the relevant forms furnished in Section IX, Bidding Forms and BOQ provided. The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
9		Alternative Bids Unless otherwise specified in the BDS, alternative bids shall not be considered
10	10.1	Bid Prices and Discounts The prices and discounts quoted by the Bidder in the Tender Forms and in the Price Schedules (BOQ) shall conform to the requirements specified as under.
	a	All lots (contracts) and items must be listed and priced separately in the Price Schedules (BOQ).
	b	The price to be quoted in the Tender Forms shall be the total price of the bid, excluding any discounts offered.
	c	The Bidder shall quote any discount and indicate the methodology for their application in the Tender Forms.
	d	Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the BDS. A bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.
	10.2	Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified in the BDS, prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted provided the bids for all lots (contracts) are opened at the same time.
	10.3	Prices shall be quoted as specified in each Price Schedule (BOQ) as provided. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible country. Prices shall be entered in the following manner:
	a	For Goods manufactured in India: 1. GST payable on the Goods, if the contract is awarded to the Bidder ; and 2. The price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified in the BDS ;
	c	For Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements: 1. The price of each item comprising the Related Services (inclusive of any applicable taxes)
11		Currencies of Bid and Payment: The currency(ies) of the bid and the currency(ies) of payments shall be as specified in the BDS. The Bidder shall quote in Indian Rupees.
12	12.1	Documents Establishing the Eligibility and Qualifications of the Bidder

		To establish Bidder's their eligibility, Bidders shall complete the Tender Form (Techno Commercial Un-Priced Bid & Priced Bid), included in Section-IX, Bidding Forms.
	12.2	The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:
		<p>a that, if required in the BDS, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IX, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in India; The bidder shall submit the Manufacturer authorization Form in the prescribed format (Page No.96) for the required items (Page No.64). The bids without the MAF's shall be rejected .</p>
		<p>b that, if required in the BDS, in case of a Bidder not doing business within India, the Bidder is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications;</p>
13	13.1	<p>Period of Validity of Bids Bids shall remain valid for the period specified in the BDS after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non –responsive.</p>
	13.2	In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses there to shall be made in writing. A Bidder may refuse the request without forfeiting its Earnest Money Deposit (EMD). A Bidder acceding to the request will neither be required nor permitted to modify the bid.
14	14.1	<p>Bid Security The Bidder shall furnish as part of its bid, a bid security, as specified in the BDS, in original form the amount and currency as specified in the BDS.</p>
	14.2	If a bid security is specified , the bid security shall be a
		<p>a Demand Draft</p>
		<p>b An unconditional guarantee issued by a Bank. of a reputed source from an eligible country. If the unconditional guarantee is issued by a financial institution located outside India, the issuing financial institution shall have a correspondent financial institution located in India to make it enforceable The bid security shall be valid for forty five (45) days beyond the original validity period of the bid, or beyond the extended period.</p>
	14.3	If a Bid Security is specified, any bid not accompanied responsive Bid Security, shall be rejected by the Purchaser as non-responsive.
	14.4	The successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
	14.5	The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the contract and furnished the required performance security.
	14.6	The Bid Security of the bidder may be forfeited or the EMD executed:
		<p>a if he withdraws from the bid during the period of bid validity specified by the Bidder on the Tender Forms, or any extension thereto provided by the Bidder ; or</p>
		<p>b if he being successful Bidder fails to:</p> <p>i. sign the Contract; or</p>

		ii. furnish a performance Security
D.SUBMISSION AND OPENING OF BIDS		
15		Sealing and Marking of Bids: The Bidder shall submit the bids electronically, through the e-procurement system (https://eprocure.gov.in/eprocure/app). Any document submitted through any other means will not be considered as part of the Bid except for the Originals as asked for in this tender.
16		Deadline for Submission of Bids: The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
17		Late Bids: The e-Procurement system would not allow any late submission of bids after due date and time as per server system. After electronic online proposal submission, the system generates a unique identification number which is time stamped. This shall be treated as acknowledgement of the proposal submission
18		Withdrawal, Substitution, and Modification of Bids: A Bidder may withdraw, substitute, or modify its bid on the e-procurement system before the date and time specified but not beyond. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Tender Forms or any extension thereof Modification/Withdrawal of the Bid sent through any other means shall not be considered by the Purchaser.
19	19.1	Bid Opening: The Purchaser shall open the bids as per electronic bid Opening procedures specified in Central Public Procurement Portal (CPPP) at the date and time specified. Bidders can also view the bid opening by logging on to the e- procurement system. Specific bid opening procedures are laid down at https://eprocure.gov.in/eprocure/app under the head “Bidders Manual Kit”. The tenderer/bidder will be at liberty to be present either in person or through an authorized representative at the time of opening of the Bid or they can view the bid opening event online at their remote end. Price Bids of only those tenderers shall be opened whose technical bids qualify.
	19.2	The withdrawn bid will be available in the system therefore will be considered, if bidder once withdraws the bid then he will not be able to participate in the respective tender again. Modification to the bid shall be opened and read out with the corresponding bid. Only bids that are opened and read out at bid opening shall be considered further.
	19.3	The Purchaser shall prepare a record of the bid opening that shall include; the name of the Bidder; whether there is a withdrawal, substitution, or modification; the Bid Price including any discounts and alternative bids; and the presence or absence of a bid security, if one was required. The Bidders’ representatives who are present in the office of the Purchaser to witness the bid opening shall be requested to sign the record. The omission/refusal of a Bidder’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be made available on the e-procurement system.
E. Evaluation and Comparison of Bids		
20	20.1	Confidentiality: Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to bidders or any other persons not officially concerned with the bidding process until information on Contract Award is communication to all Bidders.
	20.2	No Bidder shall contact the purchaser on any matter relating to its bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to

		bring additional information to the notice of the Purchaser it should be done in writing.
	20.3	Any effort by a Bidder to influence the purchaser in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.
21	21.1	To assist in the examination, evaluation, comparison of the bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids.
	21.2	If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification its bid may be rejected.
22	22.1	Determination of Responsiveness: The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.
	22.2	A substantially responsive Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission.
	22.3	The Purchaser shall examine the technical aspects of the bid submitted in accordance with instructions specified in tender document, in particular, to confirm that all requirements enumerated in the 'Schedule of Requirements' Section-VI have been complied with, without any material deviation or reservation or omission.
	22.4	If a bid is not responsive to the requirements of Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation or omission.
23		Conversion to Single Currency: For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted in a single currency as specified in the BDS.
24		Margin of Preference: Unless otherwise specified in the BDS, a margin of preference shall not apply.
25	25.1	Evaluation of Bids: The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted.
	25.2	To evaluate a Bid, the Purchaser shall consider the following:
	a	Evaluation will be done for Items or Lots (contracts), as specified in the BDS; and the Bid Price. Technical Evaluation – After the prequalification process, the Technical Specifications shall be compared with the Technical Specifications as uploaded (Datasheet, Technical Document, Brochure) by the bidder for conformity The bidder (who clears the prequalification) shall be invited to perform the PoC (Proof of Concept) for Primary items (Speakers, Amplifiers, Mics, PTZ Camera with Connections) within One week after the opening bids (27-12-2023 10 A.M to 29-12-2023 5 P.M. and 02-01-2024 10 A.M to 03-01-2024 5 P.M). Any deviations in the technical specifications, failure in the POC demonstration, leads to technical disqualification. Request for additional time for PoC shall not be entertained.
	b	price adjustment due to discounts offered;

		c	converting the amount resulting from above, if relevant, to a single currency
		d	price adjustment due to quantifiable nonmaterial nonconformities in;
	25.3		The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.
	25.4		The Purchaser's evaluation of a bid shall exclude and not take into account:
		a	In the case of Goods manufactured in the India, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
		b	in the case of Goods manufactured outside India, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;
		c	any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
	25.5		The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids.
26			Comparison of Bids: The Purchaser shall compare the evaluated prices of all substantially responsive bids established to determine the lowest evaluated bid. The comparison shall be on the basis of CIP-Carriage and Insurance Paid to (place of destination) prices for imported goods and EXW – Ex Works (named place of delivery) prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within India, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.
27	27.1		Qualification of the Bidder: The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid meets the qualifying criteria.
	27.2		The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder.
	27.3		An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's qualifications to perform satisfactorily.
28			Institutes Right to Accept any Bid and to Reject any or all bids: The Institute reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.
F. AWARD OF CONTRACT			
29			Award Criteria: The Purchaser shall award the Contract to the Bidder (Overall L1) whose bid has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided the Bidder is determined to be qualified to perform the Contract satisfactorily.
30			Purchasers Right to vary Quantities at Time of Award:

		At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VI, Schedule of Requirements, provided this does not exceed the percentages specified in the BDS, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
31	31.1	Notification of Award: Prior to the expiration of the period of bid validity, the Purchaser shall, notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the supply of Goods (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). At the same time, the Purchaser shall also notify all other Bidders of the results of the bidding.
	31.2	Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.
	31.3	The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after notification of award, requests in writing the grounds on which its bid was not selected.
32	32.1	Signing of Contract: Promptly after notification, the Purchaser shall send the successful Bidder the Contract Agreement.
	32.2	Within Fifteen (15) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.
	32.3	Notwithstanding anything contained in clause 32.2, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser that signing of the Contact Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.
33	33.1	Performance Security: The Successful bidder has to submit Security deposit/Performance Guarantee @ 3% order value in the form of DD/Bank Guarantee/Fixed deposit(In the name of NITT) Within Fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the General Conditions of Contract (GCC), using for that purpose the Performance Security Form included in Section-X, Contract Forms, or another Form acceptable to the Purchaser. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Purchaser. A foreign institution providing a bond shall have a correspondent financial institution located in India.
	33.2	Failure of the successful Bidder to submit the above- mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose bid is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

Section III. BID Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). In case of inconsistency, the provisions herein shall prevail over those in ITB.

Sl. No.	A. General
1.	The reference number of the Invitation for Bids is NITT/F.NO.031,32-A,35,37-B/HEFA/2019-20/CSG.
2.	The Purchaser is The Director, NIT Tiruchirappalli. Kind Attention To : Shri. T. Karthick Raja, TECHNICAL OFFICER, DEPARTMENT OF COMPUTER SUPPORT GROUP

Sl. No.	B. Contents of Bidding Documents
3.	For Clarification of bid purposes only, the Purchaser's address is DEPARTMENT OF COMPUTER SUPPORT GROUP, National Institute of Technology, Tiruchirappalli, 620015 Attention : Shri. T. Karthick Raja, TECHNICAL OFFICER, DEPARTMENT OF COMPUTER SUPPORT GROUP Address : National Institute of Technology, Tiruchirappalli, Floor / Room number : - City : Tiruchirappalli ZIPCode : 620015 Country : India Telephone : 0431-2503800, 9486001183 E-Mail : karthick@nitt.edu
4.	Web page : https://eprocure.gov.in/eprocure/app
5.	A Pre-Bid meeting date and venue : 05-12-2023 @ 3.00PM Third 'i' Building, CSG Complex

Sl. No.	C. Preparation of Bids
1.	The language of the bid is : English . All correspondence exchange shall be in English . Language for translation of supporting documents and printed literature is English .
2.	The Bidder shall submit the following additional documents in its bid: NA
3.	Alternative Bids shall not be considered.
4.	The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.
5.	Place of Destination: is National Institute of Technology, Tiruchirappalli, 620015.
6.	Final destination (Project Site): DEPARTMENT OF COMPUTER SUPPORT GROUP, National Institute of Technology, Tiruchirappalli, 620015.
7.	The prices shall be quoted by the bidder in : Indian Rupee / Foreign Currency of Principal's Country (Preferably in Indian Rupees) The Bidder is required to quote in Indian Rupees (INR), the portion of the bid price that corresponds to expenditures incurred in Indian Rupees(INR).
8.	Manufacturer's authorization is Required. (Ref. Page No.64 For List of Items)
9.	After sales service is Required.
10.	The bid validity period shall be 120 days
11.	EMD / Bid security Rs.7,58,000/- shall be paid by the way of Demand Draft (DD) /Bank Guarantee (BG) in favor of The Director, National Institute of Technology, Tiruchirappalli and should be valid for a period of 45 days beyond the BID validity period. All tenders received without EMD / Bank Security shall be rejected
12.	Other types of acceptable securities: NA

Sl. No.	D. Submission and Opening of Bids
1.	<p>Attention : Shri. T. Karthick Raja, TECHNICAL OFFICER, DEPARTMENT OF COMPUTER SUPPORT GROUP</p> <p>Street Address : National Institute of Technology, Tiruchirappalli,</p> <p>City : Tiruchirappalli</p> <p>ZIP/Postal Code : 620 015</p> <p>Country : India</p> <p>The deadline for bid submission is :</p> <p>Date and Time : 19-12-2023 @ 5 P.M</p> <p>The electronic bidding opening procedures shall be as given in Section I-Instructions for Online Bid Submission.</p>
2.	<p>The bid opening shall take place at : Stores and Purchase Section, National Institute of Technology, Tiruchirappalli-620015.</p> <p>Street Address : National Institute of Technology, Tiruchirappalli</p> <p>Floor / Room number : Administrative Block</p> <p>City : Tiruchirappalli</p> <p>Country : India</p> <p>Date and Time : 20-12-2023 @ 5 P.M</p> <p>The electronic bidding opening procedures shall be as given in Section I - Instructions for Online Bid Submission.</p>

Sl. No.	E. Evaluation and Comparison of Bids
1.	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is : Indian Rupees</p> <p>The source of exchange rate shall be : Reserve Bank of India.</p> <p>The date for the exchange rate shall be: Last day for submission of Bids.</p>
2.	A margin of domestic preference shall apply.
3.	<p>Evaluation will be done for concern equipment.</p> <p><i>Note: Bids will be evaluated for each item and the Contract will comprise the item(s) awarded to the successful Bidder.</i></p>

Sl. No.	F. Award of Contract
4.	<p>The maximum percentage by which quantities may be increased is :25%</p> <p>The maximum percentage by which quantities maybe decreased is: 25%</p>

Section IV. Prequalification

1. A Declaration by the firm that it has never been black-listed must be attached along with the Bid, failing which the Bid shall be rejected.
2. Profile of each Bidder and past experience in supply of the material (certificates to be enclosed), proof of manufacturing Unit/Dealership letter and general order supplier. Manufacturer's authorization certificate as prescribed in Section IX in case bidder is not manufacturer. Manufacturer's Authorization Form Format (Page No.96) and Required Items Mentioned (Page No.64) without MAF the bids will be rejected.
3. True copy of Permanent Account Number.
4. Copy of the last three years audited balance sheet of your firm
5. Details of Goods and Service Tax (GSTIN) along with a copy of certificate to be attached.
6. Submission of samples if required, for all items indicated in the schedule of requirements. The make of items proposed to be supplied should be indicated in the format of the schedule of requirements and submitted along with the techno commercial unpriced bid without indicating the pricing components.
7. Willingness to execute all orders which are placed to meet emergency requirement on priority basis. The Bidder shall note that standards for workmanship, material and equipment, and references to brand names designated by the Purchaser in the schedule of requirements are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in his bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.
8. Make In India Declaration Form (Annexe-IV)

Section V. Institute against the Corrupt and Fraudulent Practices

Institute strictly adheres to its policy against corruption and requires that bidders and their agents, subagents, sub-contractors, suppliers etc. shall not indulge in any kind of corrupt practices, fraudulent practices, collusive practices, coercive practices, obstructive practices or other kinds of corruption declared as crimes under Indian law.

- a) If bidder or their agents, subagents, sub-contractors, suppliers etc. are found, directly or indirectly, involved in such practices, bid or agreement and execution thereof at any stage may be rejected or cancelled as the case may be by the Institute and besides it Institute may initiate legal actions including civil and criminal proceeding.

For the purpose of this provision the terms are defined as follows :

- (i) “Corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party ;¹
 - (ii) “Fraudulent Practices” is any act or omission including a misrepresentation which knowingly or recklessly made to mislead another party to obtain financial or other benefit or to avoid an obligation ;²
 - (iii) “Collusive Practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party ;³
 - (iv) “Coercive Practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party ;⁴
 - (v) “Obstructive Practice” is deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice ;and / or threatening, harassing or Intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.
- b) Besides actions under clause (a) Institute may also take action to blacklist such bidder either indefinitely or for a specified period.

¹ For the purpose of this sub-paragraph, “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes Institute staff and employees of other organizations taking or reviewing procurement decisions.

² For the purpose of this sub-paragraph, “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.

³ For the purpose of this sub-paragraph, “party” refers to participants in the procurement process (including public officials) attempting either themselves, or through another person or entity not participating in the procurement or selection process, to simulate competition or to establish bid prices at artificial, non-competitive levels, or are privy to each other’s bid prices or other conditions.

⁴ For the purpose of this sub-paragraph, “party” refers to a participant in the procurement process or contract execution.

Part - 2
Supply Requirements

NIT, Tiruchirappalli

Section VI. Schedule of Requirements

Contents

1.	List of Goods and Delivery Schedule
2.	List of Related Services and Completion Schedule
3.	Technical Specifications

NIT, Tiruchirappalli

1. List of Goods and Delivery Schedule

Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date		
					Earliest Delivery Period (Weeks)	Latest Delivery Period (Weeks)	Bidder's offered Delivery period [to be provided by the bidder]
1	SUPPLY, INSTALLATION, INTEGRATION, TESTING, COMMISSIONING OF SMART CLASSROOM SOLUTION IN ORION COMPLEX, LOGOS COMPLEX, COMMON HALLS, ACADEMIC DEPARTMENT SEMINAR HALLS	Lump sum (Refer Annex-1)	Nos	DEPARTMENT OF COMPUTER SUPPORT GROUP	8	8	

1. List of Related Services and Completion Schedule

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services

NIT, Tiruchirappalli

Technical Specifications

Specifications finalized by the Committee		
1.	Name of the Equipment	SUPPLY, INSTALLATION, INTEGRATION, TESTING, COMMISSIONING OF SMART CLASSROOM SOLUTION IN ORION COMPLEX, LOGOS COMPLEX, COMMON HALLS, ACADEMIC DEPARTMENT SEMINAR HALLS List of Items enclosed as Annexure-1 (Page No. 30 to 31)
2.	Specification	Detailed Specifications enclosed as Annexure-2 (Page No. 32 to 61)
3.	Installation Required	Yes
4.	Warranty (in months)	Item wise warranty specified in the Annexure-3 (Page No. 62,63)
5.	AMC Required	No
6.	Delivery Period (Weeks)	8 weeks
7.	Shipment Terms	Up to NIT, Tiruchirappalli
8.	Payment Term	50% payment after delivery and verification Remaining 50% payment after satisfactory installation, Commissioning & acceptance testing.
9.	Mode of Purchase	CPPP (E-Tender)
10.	EMD Amount (2 to 5)%	Rs.7,58,000/-
11.	Performance Security (5-10)%	3%
Purchase committee has finalized and recommends the above mentioned specification and conditions.		


Annexure I – List of equipment's and items.

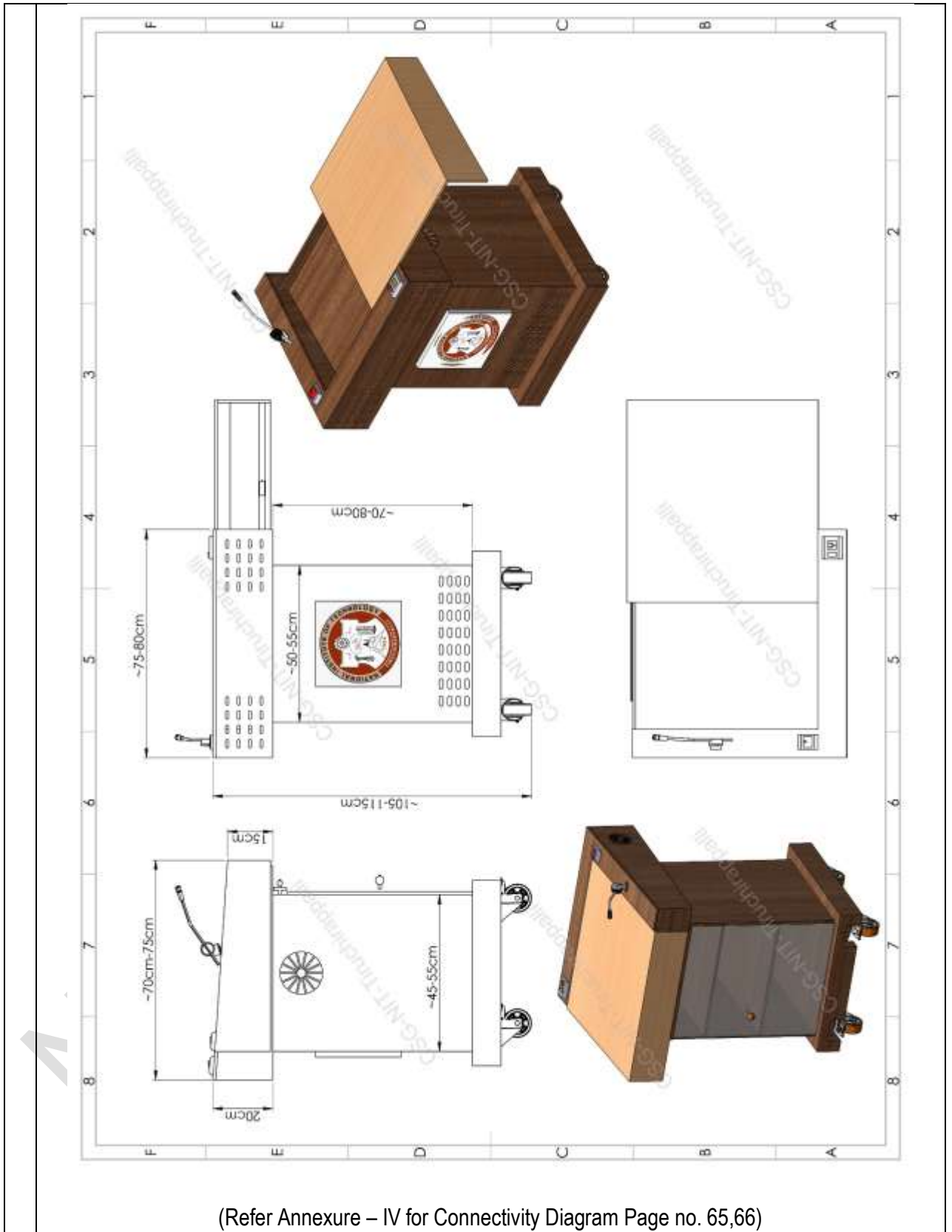
Item Group / Category	S. No	Supply, Installation and Commissioning Items Name & Description	Units
Furniture	1	Podium	100
	2	Tall Stool	100
Power Devices	3	1kVA Single Phase UPS	50
	4	1.5kVA Single Phase UPS	50
Computer Devices	5	Pen Display	100
	6	Thin Client PC	100
	7	Wireless Keyboard and Mouse	100
	8	Laptop	5
	9	USB Docking Station	100
	10	USB External Sound Card Adapter 3 in 1	50
Network Devices	11	Wifi-6 Router	25
	12	8 Port PoE Switch	25
Display Devices and Accessories	13	Interactive Panel 75inch with Trolley Mount	20
	14	HDMI CAT6 Extender	50
	15	4K HDMI Cable 10 Meter	50
	16	4K HDMI Cable 20 Meter	25
Camera and Accessories	17	Lecture Tracking PTZ Camera 20x	10
	18	Lecture Tracking PTZ Camera 12x	10
	19	Lecture Tracking 4K PTZ Camera 30x	1
	20	PTZ Camera Controller	1
	21	Multifunctional Video Switcher	1
	22	8 Feet Hight Adjustable Ceiling Mount for PTZ Camera	10
	23	6 Feet Hight Adjustable Ceiling Mount for PTZ Camera	10
	24	Active USB 3.0 Connector Cable 30 Meter	10
	25	Active USB 3.0 Connector Cable 20 Meter	10
	26	Active USB 3.0 Connector Cable 10 Meter	25
	27	6.35 to 3.5mm Audio Cable for PTZ Camera Line In 30 Meter	15
	28	6.35 to 3.5mm Audio Cable for PTZ Camera Line In 20 Meter	10
	29	360 Degree Video Conference Webcam	20
	30	360 Degree 4K Video Conferencing Camera	5
	31	4K AI PTZ Webcam	5
	32	Aluminum Tripod with Swivel Pan Head	25
Audio Devices and Accessories	33	Audio Mixer with USB I/O 12CH	25
	34	Audio Mixer with USB I/O 8CH	75
	35	Mixer Amplifier with Table Volume Controller	25
	36	Mini Amplifier	50
	37	Ceiling Speaker 30W with Fall Ceiling Mount	225
	38	Ceiling Speaker 30W with Ceiling Pendant Mount	75
	39	Wireless Clip Microphone System	30
	40	Wireless Pendant Microphone System	30
	41	Wireless Presenter Lapel Microphone System	40
	42	Dual Band Wireless Lapel+Hand Microphone System Model	25

	43	Dual Band Wireless Clip+Hand Microphone System Model	3
	44	Dual Band Wireless Handheld Microphone System	25
	45	Gooseneck Microphone	75
	46	Boundary Layer Microphone for Podium	25
	47	Rechargeable AA Battery 4 Nos Pack	125
	48	Rechargeable AA Battery Charger	125
	49	Audio and Speaker Cable 300M	15
	50	PVC Conduit/Casing 1.5" sq	175
	51	PVC Conduit/Casing 25 mm	250
Tools	52	14 feet Portable & Compact Folding Aluminum Multipurpose Ladder	2
	53	16 feet Aluminum Telescopic Ladder	2
	54	Self-Supporting Foldable Triple Step Extension Ladder	2
Installation, Commissioning and Maintenance	55	Installation, Integration and Commissioning for Type-1 Hybrid AV Class Room (108-Seater)	15
	56	Installation, Integration and Commissioning for Type-2 Hybrid AV Class Room (64-Seater)	5
	57	Installation, Integration and Commissioning for Type-1 Basic AV Class Room (108-Seater)	25
	58	Installation, Integration and Commissioning for Type-2 Basic AV Class Room (64-Seater)	30
	59	Installation, Integration and Commissioning for Hybrid AV Seminar Hall	25
	60	Onsite Support Manpower for 1 Year - 2 Technicians	1

Annexure II – Specifications of equipment's and items.

1	Name of the Equipment / Goods	Podium
	Make & Model	
	Body	
	Type / Mounting	Free standing-Wheel Mounted
	Construction	19 mm or above Mica laminated Plywood body with sliding top and Lock (Mica Lamination Color: Bottom Cabin Stand – Deep Marron / Brown Wood Pattern, Top Desk – White / Sandal) Plywood Board material should have ISI certified, Borer & Termite Proof, Bend-Resistant, Water-Resistant, Rounded Edges and Corners. Minimum 0.8mm mica lamination
	Security	Security lock system with one master key. (Sliding Top, Front and Rear Door)
	Storage	Keyboard, Mouse Drawer
	Features	<ul style="list-style-type: none"> i. Wooden Top with Centralized Locking System. ii. Access doors from both sides for quick service. iii. Toughened Glass / Polycarbonate Glass Rear Side Cabin Doors with lock iv. Min 2 Shelves Space to keep other devices such as PC, Amplifier, Mic System. v. Minimum 2 Cooling Fan vi. Built in 6 ports PDU with MCB and LED Indicator vii. One power switch on podium desk to control power to PDU viii. 2 – 4 Inch High Stable Base ix. Four Industrial Standard Castor Wheels with Two Quick Lock Pad-Full-fledged Sound System. x. Sound Vents for Two 5-inch speakers (Even Cut / Fine Cut / Laser Cut / CNC Cut)
	Interfaces	
	AV and Power, I/O (Refer Annexure – IV for Connectivity Diagram Page no. 64,65)	<p>Right top on the podium desk (from view of lecturer): Min 1x XLR receptacle port and cable from Mixer for Gooseneck Mic Connectivity Min 1x 3.5mm Cable from Mixer for Clip Mic Input Min 1x 3.5mm / Mini XLR cable for Boundary Microphone Input</p> <p>Left top on the podium desk: Min 1x 5A Socket for Laptop Charging</p> <p>Right Bottom of the podium: Min 1x 3.5mm Jack and Audio Out Cable from Mixer for Camera Mic Input Min 1x 6.35mm Jack and Audio Out cable for External Active Speaker from Mixer Min 1x XLR Male and Audio Out for External Out from Mixer</p>

	<p>Min 2x Audio RCA port and 14AWG cable from Amplifier for Speaker out</p> <p>Min 2x HDMI Out receptacle / passthrough</p> <p>Min 2x USB 3.0 receptacle / passthrough</p> <p>Min 2x RJ45 receptacle / passthrough</p> <p>Min 1x IEC 320 C14 Socket 10A with Indicator Light</p>
Cables and Adaptors	<p>Min 2x 4K HDMI Cable 2meter</p> <p>Min 2x 4K HDMI Cable 1meter</p> <p>Min 2x CAT6 Patch Cable 2meter</p> <p>Min 2x USB 3.0 Cable 2meter</p> <p>Min 1x Power Card 1.5 Meter</p> <p>Min 1x USB-C to USB-A 3.0 Adaptor</p> <p>Min 1x USB-C 3.2 Cable 1.5 Meter 100W PD 10Gbps Thunderbolt 3 Compatible tangle-free Nylon Birded High-quality aluminum alloy connector with min 10000 Plug Lifespan</p> <p>Min 1x USB-C 3.1 Gen2 Male to Female Cable 1 Meter 100W PD 10Gbps Thunderbolt 3 Compatible tangle-free Nylon Birded High-quality aluminum alloy connector with min 10000 Plug Lifespan</p>
Physical Specifications	
Dimensions (mm)	<p>Total Hight: 105cm Min to 115cm Max</p> <p>Desk Width :75cm-80cm</p> <p>Desk Depth: 70cm-75cm</p> <p>Desk Height: Front 20cm Rear 15cm (30-degree slope)</p> <p>Cabin Width: 50cm Min – 55cm Max</p> <p>Cabin Hight: 70cm Min - 80cm Max</p> <p>Cabin Depth: 45cm min – 55cm Max</p>
Model Structure (Refer Annexure – IV)	



2	Name of the Equipment / Goods	Tall Stool
	Make & Model	
	Seating Hight	Min 70 cm to Max 75 cm
	Seat Width / Diameter	Min 35 cm to Max 45cm
	Chair Hight	Min 95cm to Max 120cm
	Back Rest Width	Min 50cm to Max 65cm
	Seat Material	Foam and Leatherette PU
	Frame Material	High Quality Rust-Free Stainless-Steel Chrome finished SAE 304 or higher
	Rotation	Should be able to rotate seat
	Siting Support & Height Adjustment	Should have Leg Step cum Rest Bar / Ring Should have Stable Back Rest Should have Hight Adjustable Handle Gear / Knob
	Weight	Min 5 kg to Max 14 kg
	Chair Structure	

3	Name of the Equipment / Goods	1kVA Single Phase UPS
	Make & Model	
	Main Input Voltage Range	140-280 V
	Main Output Voltage	230 / 220 V
	Rated power (W)	Min 600 W
	Rated power (VA)	Min 1000 VA
	Output connection type	Min 4x 5A Socket Battery Backup with Surge Protection Min 1x 5A Direct / Loop Out / Surge Supply
	Cable Length	Min 1.2 Meter
	Battery type	Lead-acid Maintenance free battery
	Battery voltage	24 V
	Battery capacity	Min 2x 7 Ah
	Battery Placement	In-Built
	Transfer time	Max 12ms
	Indicator	On Mains, Main Fails, On Battery, Fault, Overload
	Operating Temperature	Min 0 - 40 ° C
	Certification	BIS - IS 16242 / IEC 62040-1
	Accessories	Standard accessories and Cables

4	Name of the Equipment / Goods	1.5 kVA Single Phase UPS
	Make & Model	
	Main Input Voltage Range	140-280 V
	Main Output Voltage	230 / 220 V
	Rated power (W)	Min 850 W
	Rated power (VA)	Min 1500 VA
	Output connection type	Min 4x 5A Socket Battery Backup with Surge Protection Min 1x 5A Direct / Loop Out / Surge Supply
	Cable Length	Min 1.2 Meter
	Battery type	Lead-acid Maintenance free battery
	Battery voltage	24 V
	Battery capacity	Min 4x 7 Ah / 2x 9Ah
	Battery Placement	In-Built, Door for Battery Replacement
	Transfer time	Max 10ms
	Indicator	LCD Display for Status, Percentage, Remaining Time On Mains, Main Fails, On Battery, Fault, Overload
	Control / Monitoring Interface	Serial Port / USB
	Operating Temperature	Min 0 - 40 ° C
	Certification	BIS - IS 16242 / IEC 62040-1
	Accessories	Standard accessories and Cables

5	Name of the Equipment / Goods	Pen Display
	Make & Model	
	Display Panel Size	Min 21-inch Anti-Glare
	Panel Type	IPS LCD or Higher
	Protection	Full Lamination
	Color	Min 16M
	Color Gamut	Min 120% sRGB
	Display Resolution	Min 1920 x 1080 (16:9)
	Brightness	Min 235cd/m2
	Contrast Ratio	Min 1000:1
	Viewing Angle	Min 175°
	Response Time	Max 15ms
	Pixel Per Inch	Min 140 PPI
	Tilt Recognition	Min ±60°
	Pen Type	Battery-Free Electromagnetic Resonance
	Pen Pressure Sensitivity	Min 8192 Levels
	Pen Resolution	Min 5080 LPI (Lines Per Inch)
	Accuracy	± 0.01-0.03 mm Center
	System Compatibility	Should support Windows 10, Mac OS 10, Android
	Video Interface	Min 1x USB-C Full Featured DP Support Min 1x USB-C / HDMI-USB Signal
	Replacement Nibs	Min 8 Nibs
	Stand	Angle Adjustable Stand with Min 20-60° range
	Physical Dimensions	Weight Max 2.5 kg

Accessories and Cables	Battery less Pen, Pen Holder, Power Adaptor, Angle Adjustable Stand (20-60°) Standard Accessories and USB Cable
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6	Name of the Equipment / Goods	Thin Client PC
	Make & Model	
	Processor	Core i5 13 th Gen / Ryzen5 7000 Series Processor with 4.5Ghz 12MB Cache Iris / Radeon or higher
	RAM Memory	Minimum 16GB DDR4 3200MHz
	Storage / Hard Drive	Minimum 512GB M.2 NVMe
	Wireless Connectivity	Wi-Fi-6E 2x2 & Bluetooth 5.0 or higher
	Interfaces	Min 2x USB Type-A 3.2 Gen2 Min 1x USB Type-C 3.2 Gen2 with DP support / Thunderbolt 4 Min 1x 1000 Base-T LAN Port Min 2x HDMI 2.0 Min 1x 3.5mm Headphone Combo Jack
	Power	Power Delivery adaptor
	Operating System Compatibility	Ubuntu / Windows / DOS
	BIOS and Security Technology	UEFI PXE Boot and TPM 2.0
	Security	Anti-Theft Security Lock Slot
	Physical Dimensions	Weight Max 2kg Max 190mm x 190mm x 40mm / 130mm x 130mm x 60mm
	Accessories and Cables	Power adaptor, Standard Accessories and Cables

7	Name of the Equipment / Goods	Wireless Keyboard and Mouse
	Make & Model	
	Connectivity	Wireless USB Receiver
	Keyboard Type	Full-Size Chiclet Keyboard Spill-proof Anti-fading treatment with Sturdy tilt legs.
	Mouse	1000 dpi Movement Resolution Indication for Low Battery
	Battery Backup	Min 16 Months Range

8	Name of the Equipment / Goods	Laptop
	Make & Model	
	Display	Minimum 15"inch FHD
	Processor	Core i5 12 th Gen Processor 4.4Ghz 12MB Cache or higher
	RAM Memory	Minimum 16GB DDR4 3200MHz (2x8 GB)

Storage / Hard Drive	Minimum 512GB M.2 NVMe
Wireless Connectivity	Wi-Fi-6E 2x2 & Bluetooth 5.1 or higher versions
Video Conferencing	Minimum 1x Inbuilt 2MP with Shutter and Status LED Minimum 2x Inbuilt Speakers Minimum 2x Inbuilt Microphones
Interfaces	Min 2x USB Type-A 3.2 Gen1 Min 1x USB Type-C 3.2 Gen2 Min 1x USB Type-A 2.0 Min 1x 1000 Base-T LAN Port Min 1x HDMI 2.0 Min 1x 3.5mm Audio Jack Min 1x Micro SD/ SD Card Slot
Power	Min 65W Power Delivery adaptor
Battery	Min 3 Cell 40Wh Battery
Security	Anti-Theft Security Lock Slot
Physical Dimensions	Weight Max 2Kg Dimensions Max 25mm Thickness
Operating System	Ubuntu / Fedora / DOS
BIOS and Security Technology	UEFI PXE Boot and TPM 2.0
Accessories and Cables	Standard Accessories and Cables

9	Name of the Equipment / Goods	USB Docking Station
	Make & Model	
	Interfaces	Min 1x Host USB Type-C / Type-B Min 2x USB Type-A 3.0 Min 1x USB Type-A 2.0 Min 1x 1000 Base-T LAN Port Min 1x DP / VGA Min 2x HDMI 2.0 Min 1x 3.5mm Audio Combo Jack
	Display Output Resolution Support	Min 4K UHD
	Extended Monitor Support	Min 2 Monitor Extension Support
	System Compatibility	This docking station should support Laptops/Desktops with Windows OS and Latest Android Tablets/Mobiles (Additional Display supported models)
	Host USB Cable Length	Min 8cm
	Security	Anti-Theft Security Lock Slot
	Physical Dimensions	Weight Max 250 grams
	Accessories and Cables	Standard Accessories and USB Cable

10	Name of the Equipment / Goods	USB External Sound Card Adapter 3 in 1
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	Make & Model	
	Interfaces	Minimum 1 x 3.5mm Jack Audio output Minimum 1x 3.5mm Headphone Combo (Mic & Audio Out) Minimum 1 x Microphone input
	USB	Minimum 1 x USB Type A with 5cm cable
	Construction	Aluminum Alloy construction
	Operating System Compatibility	Windows, Mac Driver free Operation

11	Name of the Equipment / Goods	Wifi-6 Router
	Make & Model	
	Wireless Standards	IEEE 802.11ax/ac/n/a 5 GHz IEEE 802.11n/b/g 2.4 GHz
	Speed	Min 1200 Mbps (802.11ax) @ 5 GHz Min 300 Mbps (802.11n) @ 2.4 GHz
	Transmission Technology	OFDMA and MU-MIMO
	Stream	Min 4 Streams
	Transmission Power (CE)	Min 20dBm @ 2.4GHz Min 22dBm @ 5GHz
	Antenna	Min 4x Fixed antenna with Beamforming technology
	Coverage Range	Min 1000 square feet
	Operation Mode Compatibility	Router Mode and Access point Mode
	Ports	Min 3x Gigabit LAN Min 1x Gigabit WAN
	Processor	Min 1.5 GHz Triple Core CPU
	Accessories	Power Adaptor, Standard accessories and Cables

12	Name of the Equipment / Goods	8-Port PoE+ Switch
	Make & Model	
	Interfaces	Min 8x 10/100/1000 Mbps RJ45 Ports (Auto Negotiation/Auto MDI/MDIX) Min 2x Gigabit SFP Slots
	PoE Ports	Min 8x PoE+ RJ45 Ports
	PoE Power	Min 150W
	PoE Standard	802.3at/af
	Standards and Protocol Support	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3af, IEEE 802.3at, IEEE 802.1q, IEEE 802.1p
	Fans	Min 1x Fan
	Switching Capacity	Min 18 Gbps
	Packet Forwarding Rate	Min 14 Mbps
	MAC Address Table	Min 8K V4
	Packet Buffer Memory	Min 4 Mbit
	Software Feature	Bandwidth Control Min 16x IP Interfaces

	Min 32x Static Routing DHCP Relay DHCP Snooping Link Aggregation Loopback Detection Min 4K VLAN Groups 802.1Q tag VLAN 802.1X Port based authentication IP/IPv6-MAC Binding DHCP Snooping IP/Port/MAC based access control Automatic Device Discovery Network Monitoring Event Warnings
Management	Web-based GUI Command Line Interface (CLI) SNMPv1/v2c/v3 Cloud Access through OEM Software Controller
Mount Compatibility	Rack Mounted
Power supply	Min 1x 100 to 240 VAC, 50 ~ 60 Hz
Accessories	Cables and Standard accessories

13	Name of the Equipment / Goods	Interactive Panel 75inch with Trolley Mount
	Screen type	Scratch resistant, Anti-glare
	Size	75 inches
	Backlight Technology	IPS
	Colors	Minimum 1 Billion 10-bit
	Brightness (nits)	Minimum 400 cd/m2
	Contrast Ratio	Minimum 1200:1
	Resolution (Pixels)	3840x2160 (UHD)
	Aspect Ratio	16:9
	Response Time	Max 10 ms
	Viewing Angles	178(H); 178(V)
	Backlight Life (Hours)	Minimum 50000 Hrs
	Refresh Rate	Minimum 60 Hz
	Touch technology	Infrared
	Touch Points	Min 20-point multi touch, 10 points writing
	Touch pen or Stylus	Minimum 2 Nos
	Tip detection	Min 2 Different Size Tips
	Touch Resolution	32767 x 32767
	Surface Treatment	Min 8H Hard Coating
	Embedded Platform Processor	Min Quad Core Processor ARM Cortex with GPU
	Embedded OS	Android 11 or latest Version
	Platform RAM	Minimum 4GB DDR4
	Platform storage	Minimum 32 GB

Annotation Software	Basic Annotation Software Provided by Same OEM
Cast Software	Screen Content sharing software Provided by Same OEM
Wireless Connectivity	Min Wi-Fi 5
Connector Interfaces	Min 2x HDMI IN 2.0 Min 1x HDMI OUT Min 1x Audio IN (PC Audio in) Min 1x Audio OUT (Earphone out) Min 1x RS232 Min 1x OPS Slot Min 1x USB-C 3.0 with DP Support Min 1x USB 2.0 Type A Min 3x USB 3.0 Type A x 3 (Front 2, Rear 1) Min 2x USB Type B Touch Port Min 1x Ethernet Lan (RJ45)
Remote Control Feature	Yes
Speakers	Internal speakers Minimum 15W x 2
Physical Compatibility	Top Camera Plate x 1 Wall Mount (600 x 400) x 1 Slot in PC Compatibility
Power Consumption	Maximum 350W
Trolley mount Specifications	
Material	Steel
Trolley Dimensions	Minimum 130cm x 160cm x 65cm (W x H x D)
Support Frames	Two Vertical Frames Support
Display Size Compatibility	Min 75" inch – 85" inch
Display weight Capacity	Min 60kg
Display Height adjustable	Min 30inch
Shelf weight capacity	Min 7.5 kgs
Shelf Size	Min 75cm x 35cm
VESA Compatibility:	400x200 to 600x400

14	Name of the Equipment / Goods	HDMI CAT 6 Extender
	Make & Model	
	Transmission Range	Min 70 meter @ 1080 Min 30 meter @ 4K
	Interfaces	TX: Min 1x HDMI In Min 1x HDMI Loop Out Min 1x RJ45 Min 1x IR In 1x 5V-12V DC RX: Min 1x RJ45 Min 1x HDMI Out Min 1x IR Out
	Compatibility	EDID PoC
	Accessories and Cables	Power Adaptor, Standard Accessories and Cables

15	Name of the Equipment / Goods	4K HDMI Cable 10 Meter
	Make & Model	
	Cable Length	Min 10 Meter
	Ethernet channel speed	Min 18 Gigabits Per Second
	Resolution Support	4K@60Hz (4:4:4)
	Connector	Gold-plated connectors with resist corrosion
	HDMI Compliance	HDR, HDCP 2.2, EDID and CEC
	Feature Support	ARC, Ethernet, 3D
	Conductors Material	Tinned Copper / Bare Copper

16	Name of the Equipment / Goods	4K HDMI Cable 20 Meter
	Make & Model	
	Cable Length	Min 20 Meter
	Ethernet channel speed	Min 18 Gigabits Per Second
	Resolution Support	4K@60Hz (4:4:4)
	Connector	Gold-plated connectors with resist corrosion
	HDMI Compliance	HDR, HDCP 2.2, EDID
	Feature Support	ARC, Ethernet, 3D
	Conductors Material	Tinned Copper / Bare Copper

17	Name of the Equipment / Goods	Lecture Tracking PTZ Camera 20x
	Make & Model	
	PTZ Sensor	1/2.8" 2MP CMOS or higher
	Panoramic Sensor	1/2.8" 2MP CMOS or higher
	PTZ Optical Zoom	Min 20x zoom
	PTZ Digital zoom	Min 12x zoom
	Horizontal viewing angle	PTZ: Min 53°, Panoramic: Min 110°
	Aperture	PTZ: Min F1.8 ~ F2.8, Panoramic: Min: 2.4
	Shutter Speed	Min Range 1/30 ~ 1/10,000 sec
	Panning angle	Minimum +/- 170°
	Tilting angle	Minimum + 90°/-30°
	Panning Speed	Min 90°/sec Manual
	Video resolution	Min 1080p 60fps
	Minimum Illumination	1 Lux or less
	Protocol Support	HTTP, RTSP, RTMP, SRT, VISCA, ONVIF
	Video & Audio Compression	MJPEG, H.264, H.264, PCM
	Video signal interface	Ethernet IP, USB 3.0, 3G-SDI, HDMI - Simultaneous Output
	Control port interface	RS-232, Ethernet IP
	Ethernet	PoE+, Multi Stream
	Multi-stream Capability	Min 2x RTSP/Web View
	IP Streaming Resolution	Min 1080p 60fps
	Audio Input	Min 1 Line In (3.5mm)
	Audio Output	HDMI, USB 3.0, Ethernet IP, 3G-SDI
	Camera Features	Focus System, Gain Control, White Balance, 3D Noise Reduction Image Processing, Flip, Mirror
	Tracking Functions and Modes	Auto Framing, AI Presenter Tracking, Stage, Zone, Hybrid

Track Movement	Tacking should be continuous and stuck free movement
Auto Presenter switching	Yes
Pre-sets	Min 100
IR Remote Control	Yes
Camera control Software / Web UI / Virtual Camera Streaming App	Should be provide by OEM Should be support Virtual Camera Streaming for Windows Computers for VC Application Input
Web Live Video Preview	Yes
Mounting Compatibility	Upside-Down ¼ Universal Thread
Accessories	Power adaptor, Remote Control, Standard Accessories and cables

18	Name of the Equipment / Goods	Lecture Tracking PTZ Camera 12x
	Make & Model	
	PTZ Sensor	1/2.8" 2MP CMOS or higher
	PTZ Optical Zoom	Min 12x zoom
	PTZ Digital zoom	Min 2x zoom
	Horizontal viewing angle	PTZ: Min 75°
	Aperture	PTZ: Min F1.8 ~ F2.8
	Shutter Speed	Min Range 1/30 ~ 1/10,000 sec
	Panning angle	Minimum +/- 170° Auto Tracking and Manual
	Tilting angle	Minimum + 90°/-90°
	Panning Speed	Min 90°/sec Manual
	Video resolution	Min 1080p 60fps
	Minimum Illumination	0.5 Lux or less
	Protocol Support	HTTP, RTSP, RTMP, SRT, VISCA
	Video & Audio Compression	MJPEG, H.264, H.264, PCM
	Video signal interface	Ethernet IP, USB 3.0 - Simultaneous Output
	Control port interface	Ethernet IP
	Ethernet	PoE+, Multi Stream
	Multi-stream Capability	Min 2x RTSP/Web View
	IP Streaming Resolution	Min 1080p 60fps
	Audio Input	Min 1 Line In (3.5mm)
	Audio Output	USB 3.1, Ethernet IP
	Camera Features	Focus System, Gain Control, White Balance, 3D Noise Reduction Image Processing, Flip, Mirror
	Tracking Functions and Modes	AI Presenter Tracking, Stage, Zone, Hybrid
	Track Movement	Tacking should be continuous and stuck free movement
	Pre-sets	Min 100
	IR Remote Control	Yes
	Camera control Software / Web UI / Virtual Camera Streaming App	Should be provide by OEM Should be support Virtual Camera Streaming for Windows Computers for VC Application Input
	Web Live Video Preview	Yes
	Mounting Compatibility	Upside-Down ¼ Universal Thread
	Security	Anti-Theft Security Lock Slot

	Accessories	Power adaptor, Remote Control, Standard Accessories and cables
19	Name of the Equipment / Goods	Lecture Tracking 4K PTZ Camera 30x
	Make & Model	
	PTZ Sensor	1/2.8" 8MP CMOS or higher
	PTZ Optical Zoom	Min 30x zoom
	PTZ Digital zoom	Min 12x zoom
	Horizontal viewing angle	PTZ: Min 65°
	Aperture	PTZ: Min F1.8 ~ F4.5
	Shutter Speed	Min Range 1/1 ~ 1/32,000 sec
	Panning angle	Minimum +/- 170°
	Tilting angle	Minimum + 90°/-30°
	Panning Speed	Min 90°/sec Manual
	Video resolution	Min 4K 30fps
	Minimum Illumination	0.5 Lux or better
	Protocol Support	HTTP, RTSP, RTMP, SRT, VISCA
	Video & Audio Compression	MJPEG, H.264, H.264, PCM
	Video signal interface	Ethernet IP, USB 3.0, 3G-SDI, HDMI (Min 3-Simultaneous Output)
	Control port interface	Ethernet IP
	Ethernet	PoE+, Multi Stream
	Multi-stream Capability	Min 2x RTSP/Web View, 1x NDI
	IP and USB Streaming Resolution	Min 4K 30fps
	Audio Input	Min 1 Line In (3.5mm)
	Audio Output	Ethernet IP, USB 3.0, 3G-SDI, HDMI
	Camera Features	Focus System, Gain Control, White Balance, 3D Noise Reduction Image Processing, Flip, Mirror
	Tracking Functions and Modes	AI Presenter Tracking, Stage, Zone, Hybrid
	Track Movement	Tacking should be continuous and stuck free movement
	Pre-sets	Min 100
	IR Remote Control	Yes
	Camera control Software / Web UI / Virtual Camera Streaming App	Should be provide by OEM Should be support Virtual Camera Streaming for Windows Computers for VC Application Input
	Web Live Video Preview	Yes
	Mounting Compatibility	Upside-Down ¼ Universal Thread
	Security	Anti-Theft Security Lock Slot
	Accessories	Power adaptor, Remote Control, Standard Accessories and cables

20	Name of the Equipment / Goods	PTZ Camera Controller
	Make & Model	
	Protocol Support	VISCA, Pelco P&D, ONVIF
	Control port interface	RJ45, RS-232, RS-422 / 485
	Baud Rate	2400, 4800, 9600, 19200, 38400 bps
	Ethernet	PoE+
	Camera Address	Min 250
	Presets	Min 250

	Joystick	4D Joystick for Tilt, Pan, Zoom, Lock
	Keyboard	Min 1x Zoom Seesaw Lever / Knob Min 5x Knob for Menu, PTZ Speed, Focus, Gain Controls (or) Touch Screen Display Control
	Display	Min 2 Inch LCD/LED Display
	Camera Shortcut	Min 6 Channel
	Accessories	Power adaptor, Remote Control, Standard Accessories and cables

21	Name of the Equipment / Goods	Multifunctional Video Switcher
	Make & Model	
	Input	Min 4x HDMI 720p-1080p 60fps Min 1x USB 2.0 Min 2x 3.5mm Audio In
	Output	Min 2x HDMI 1080p 60fps Min 1x USB-C 3.0 1080p 60fps Min 1x 3.5mm Audio Out
	Protocol Support	VISCA, RTMP
	Control port and Stream Interface	RJ45
	PTZ Camera Address	Min 4
	Web Control	Yes
	Joystick	4D Joystick for Tilt, Pan, Zoom, Lock
	Keyboard	Min 4x Input Switching Buttons with Light
	Display	Min 5 Inch Inbuilt LCD/LED FHD Display
	Accessories	Power adaptor, Standard Accessories and cables

22	Name of the Equipment / Goods	8 Feet High Adjustable Ceiling Mount for PTZ Camera
	Make & Model	
	Hight	Min 8 Feet with Two Step Hight Adjustable and Angle Adjustable
	Material	Steel / Metal with Rust Prevention Coat or Painting
	Cable Organizing	Should have hole for Ethernet cable and USB Cable
	Load Capacity	Min 3 kg

23	Name of the Equipment / Goods	6 Feet Hight Adjustable Ceiling Mount for PTZ Camera
	Make & Model	
	Hight	Min 6 Feet with Two Step Hight Adjustable and Angle Adjustable
	Material	Steel / Metal with Rust Prevention Coat or Painting
	Cable Organizing	Should have hole for Ethernet cable and USB Cable
	Load Capacity	Min 3 kg

24	Name of the Equipment / Goods	Active USB 3.0 Connector Cable 30 Meter
	Make & Model	
	Length	Minimum 30 Meters
	Hardware Compatibility	Should support quoted Lecture Tracking Camera (Item No.17,18)
	Connector	USB Type-A Male to Female

	Throughput	Should support USB 3.0 throughputs up to 5 Gbps
	Backward Compatibility	Should support Backward USB Versions

25	Name of the Equipment / Goods	Active USB 3.0 Connector Cable 20 Meter
	Make & Model	
	Length	Minimum 20 Meters
	Hardware Compatibility	Should support quoted Lecture Tracking Camera (Item No.17,18)
	Connector	USB Type-A Male to Female
	Throughput	Should support USB 3.0 throughputs up to 5 Gbps
	Backward Compatibility	Should support Backward USB Versions

26	Name of the Equipment / Goods	Active USB 3.0 Connector Cable 10 Meter
	Make & Model	
	Length	Minimum 10 Meters
	Connector	USB Type-A Male to Female
	Throughput	Should support USB 3.0 throughputs up to 5 Gbps
	Backward Compatibility	Should support Backward USB Versions

27	Name of the Equipment / Goods	6.35 to 3.5mm Audio Cable for PTZ Camera Line In 30 Meter
	Make & Model	
	Length	Minimum 30 Meters
	Connector	6.35 Male to 3.5mm Male
	Conducting Material	Oxygen-free Pure copper
	Sound Signal Carrying Capability	Should support both balanced audio signals and stereo audio signals

28	Name of the Equipment / Goods	6.35 to 3.5mm Audio Cable for PTZ Camera Line In 20 Meter
	Make & Model	
	Length	Minimum 20 Meters
	Connector	6.35 Male to 3.5mm Male
	Conducting Material	Oxygen-free Pure copper
	Sound Signal Carrying Capability	Should support both balanced audio signals and stereo audio signals

29	Name of the Equipment / Goods	360-Degree Video Conference Webcam
	Make & Model	
	Lens	Min 1x 5MP 1/2.8" CMOS Sensor fisheye lens
	Digital zoom	Min 3x zoom
	Video resolution	Min 1080p 30fps
	Video & Audio Compression	MJPEG, YUV/H.264
	Video signal interface	Min 1x USB-C
	Tracking Features	Auto Framing, Auto Presenter Tracking
	Presets	Min 4 Modes (180 Panoramic +180 Panoramic, Host+360 Panoramic, Host Only, 4 Active Participants)
	Microphones	Min 2x In-built Microphones
	Microphones Pickup Range	Min 3 Meter Radius

	Noise and Echo Cancellation	Background Echo/Noise Suppression
	Control Buttons	Volume, Mute, Mode
	IR Remote Control	Yes
	Mount	Table / ¼ Thread Mount
	OS Compatibility	Windows 10 or higher, Mac OS 10 or higher
	Weight	Max 0.5 kg
	Accessories	Remote Control, Standard Accessories, and cables

30	Name of the Equipment / Goods	360-Degree 4K Video Conference Camera
	Make & Model	
	Lens	Min 2x 4K resolution fisheye lens
	Digital zoom	Min 5x zoom
	Video resolution	Min 2160p 30fps Recoding Min 2160p 30fps Streaming
	Video & Audio Compression	MJPEG, H.264
	Video signal interface	Min 1x USB-C 3.1, Min 1x HDMI 2.0
	Tracking Features	Auto Framing, Auto Presenter Tracking
	Presets	Min 4 Modes (180 Panoramic +180 Panoramic, Host+360 Panoramic, Host Only, 4 Active Participants)
	Microphones	Min 6x In-built Beam Foaming Microphones
	Microphones Sensitivity	Min -38dB+/-1dB@1KHz
	Microphones Pickup Range	Min 5.5 Meter Radius
	Noise and Echo Cancellation	Acoustic Echo Cancellation Background Noise Suppression
	Speaker Output	Min 10W
	Wireless	Wi-Fi 5GHz + 2.4GHz Bluetooth 5.0 or higher
	Control Buttons	Volume, Mute, Mode
	IR Remote Control	Yes
	System Memory	Min 64GB
	Camera control software	Yes, OEM Software
	Mount	¼ Thread Mount
	Power	PoE+ and DC In
	OS Compatibility	Windows 10 or higher, Mac OS 10 or higher
	Weight	Max 2.5 kg
	Security	Anti-Theft Security Lock Slot
	Accessories	Power adaptor, Remote Control, Standard Accessories, and cables

31	Name of the Equipment / Goods	4K AI PTZ Webcam
	Make & Model	
	PTZ Sensor	1/2.8" 8MP CMOS or higher
	Zoom	Min 4x zoom
	Horizontal viewing angle	Min 70°
	Aperture	Min F1.9
	Panning angle	Minimum +/- 140°

Tilting angle	Minimum + 30°/-70°
Panning Speed	Min 110°/sec
Stabilization	Min 2-Axis gimbal
Video resolution	Min 4K@30fps & 1080@60fps
Video & Audio Compression	MJPEG, H.264, YUV
Video Interface	USB-C 3.0 or higher
Microphone	Min 2x Inbuilt omni-directional mics with noise reduction
Camera Features	Focus System, Gain Control, Flip
Tracking Functions and Modes	Gesture Control, Auto Framing, AI Presenter Tracking and Zooming, Stage, Zone, Hybrid, Voice Control
IR Remote Control	Yes
Camera control Software / Web UI	Should provide by OEM
Mounting Compatibility	Upside-Down ¼ Universal Thread
Accessories	Remote Control, Standard Accessories and cables

32	Name of the Equipment / Goods	Aluminum Tripod with Swivel Pan Head
	Make & Model	
	Mounting Head Provisions	Bubble Head Quick Head Release Adjustable Tilt Fixed Pan bar handle
	Head Type	Ball Head
	Head Bowl Size	Min 55mm
	Tripod Stage	Min 3 Stages
	Height Coverage	Minimum 1450mm
	Load Capacity	Minimum 5 Kg
	Folded Height	Max 800mm
	Tripod Weight	2-5kg
	Sections	Max 4
	Feet Material	Rubber
	Material	Aluminum
	Compatible Devices	DSLR Camera, Video Camcorder
	Accessories	Standard Accessories.

33	Name of the Equipment / Goods	Audio Mixer with USB I/O 12CH
	Make & Model	
	Phantom power	+48 V
	Digital I/O	USB Audio Class 2.0 or higher Should compatible with Windows 10 - Mic In and Sound Out
	Input Channels	Min 4x Mono (Mic/Line) with Phantom Min 2x Mono/Stereo (Mic/Line) Min 2x Stereo (Line)
	Output Channels	Min 2x Stereo Out Min 1x Aux Out

		Min 1x Phones
	Input Channel Function	HPF, Peak LED, Level Meter, EQ-Hgh, Mid, Low
	USB I/O Sampling rate	Min 48kHz
	Mix Output	Min +21dBu
	Switches and Controls	Min 1x Separate Level & Gain Knob for Channel 1-4 Min 4x Level Knob for Channel 5-12 Min 1x Volume Knob / Fader for Main Out Min 1x Volume Knob for Headphone out
	Accessories	Standard Accessories and Cables

34	Name of the Equipment / Goods	Audio Mixer with USB I/O 8CH
	Make & Model	
	Phantom power	+48 V
	Digital I/O	USB Audio Class 2.0 or higher Should compatible with Windows 10 - Mic In and Sound Out
	Input Channels	Min 2x Mono (Mic/Line) with Phantom Min 2x Mono/Stereo (Line) Min 2x Stereo (Line)
	Output Channels	Min 2x Stereo Out Min 1x Phones Min 1x Aux Out
	Input Channel Function	HPF, Peak LED, Level Meter, EQ-Hgh, Mid, Low
	USB I/O Sampling rate	Min 48kHz
	Mix Output	Min +21dBu
	Switches and Controls	Min 1x Separate Level & Gain Knob for Channel 1-2 Min 4x Level Knob for Channel 3-8 Min 1x Volume Fader for Main Out Min 1x Volume Knob for Headphone out
	Accessories	Standard Accessories and Cables

35	Name of the Equipment / Goods	Mixer Amplifier with Table Volume Controller
	Make & Model	
	Power Output	Min 200W @ 8Ω / 100W x 2 @8Ω
	Frequency Response	Min 20 Hz – 20 kHz @ 8 Ω Min 80 kHz -14 kHz @ 70V / 100 V
	Signal to Noise Ratio	70 dB- 80dB
	Total Harmonic Distortion	Max 0.5 %
	Phantom Power	15V-48V DC
	Inputs	Min 5x Input (1x ¼ Jack Rear, 1x ¼ /3.5mmJack Front, 1x RCA, 1x Mic)
	Output	Min 1x Outputs for Speakers (8 Ω, 70V/100 V Compatibility)
	Control Button	Knob for Volume level (Front Side) Min 5x Knob for Input Level Control Bass & Treble / Low-High level control
	Remote Control	Should have Remote Volume Control Socket / Port / RJ45 Connector or Compatible to connect Volume Controller
	Table Volume Controller	Volume Level Rotary Knob Wall and Table Mounting Compatibility

		White Color
	Speaker Compatibility	Should support ceiling speakers (item no 37 & 38)
	Protection	Output Short-circuit Thermal shut-down
	Power	50/60 220-240V C14
	Physical Dimensions	Max 45cm x 45cm x 10cm Max 15kg
	Accessories	Standard accessories and Cables

36	Name of the Equipment / Goods	Mini Amplifier
	Make & Model	
	Power Output	Min 200W @ 8Ω / 100W x 2 @ 8Ω
	Frequency Response	Min 20 Hz – 20 kHz
	Signal to Noise Ratio	105dB-110dB
	Total Harmonic Distortion	Max 0.2 %
	Power Amp	TPA3255 or Equivalent
	Inputs	Min 1x Stereo Input (RCA LR / XLR LR / ¼ Jack LR)
	Output	Min 2x Channel Outputs for Speakers Min 1x Pre-Out
	Control Button	Knob for Volume level (Front Side)
	Speaker Compatibility	Should support ceiling speakers (item no 37 & 38)
	Power	DC Input Compatibility 24-48V Adaptor Output: Min 48V 5A
	Physical Dimensions	Max 18cm x 12cm x 5cm
	Accessories	Power Adaptor, Standard accessories and Cables

37	Name of the Equipment / Goods	Ceiling Speaker with Fall Ceiling Mount
	Make & Model	
	Speaker Type	2way Coaxial
	Cabinet design	Acoustic Suspension
	Drivers	Min 4-inch LF Driver Min 0.5-inch HF Driver
	Rated Power	Min 15W Continuous / 30W Program / 60W Peak
	Conical Coverage	Min 150°
	Nominal impedance	8 Ω / 16 Ω
	Speaker Frequency Response	Min 120 Hz – 20s kHz
	Sensitivity	Min 84 dB SPL @1W/1m
	Sound Pressure Level	Min 100dB @1W/1m
	Transformer taps	Min 3 Taps and 8Ω / 16 Ω thru, via switch 100V / 70V
	Load protection	Over Load Protection
	Construction	Solid ABS / Metal / Aluminum extrusion Back Can with painted aluminum grille / powder coated steel grille
	Mount Type	Ceiling Mount
	Mount Kit	2x2 Fall Ceiling Tile Mount Kit
	Environment Protection	Min IP3X or Equivalent
	Color	White
	Weight	Max 5 kg

	Accessories	C-ring, Back Can, Grille, Ceiling Mounts / Tile rails, Brackets, Standard accessories
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38	Name of the Equipment / Goods	Ceiling Speaker with Pendant Mount
	Make & Model	
	Speaker Type	2way Coaxial
	Cabinet design	Acoustic Suspension
	Drivers	Min 4-inch LF Driver Min 0.5-inch HF Driver
	Rated Power	Min 15W Continuous / 30W Program / 60W Peak
	Conical Coverage	Min 150°
	Nominal impedance	8 Ω / 16 Ω
	Speaker Frequency Response	Min 120 Hz – 20s kHz
	Sensitivity	Min 84 dB SPL @1W/1m
	Sound Pressure Level	Min 100dB @1W/1m
	Transformer taps	Min 3 Taps and 8Ω / 16 Ω thru, via switch 100V / 70V
	Load protection	Over Load Protection
	Construction	Solid ABS / Metal / Aluminium extrusion Back Can with painted aluminium grille / powder coated steel grille
	Mount Type	Ceiling Mount
	Mount Kit	True ceiling Pendant Mount Kit
	Environment Protection	Min IP3X or Equivalent
	Color	White
	Weight	Max 5 kg
	Accessories	C-ring, Back Can, Grille, Pendant Mount, Brackets, Standard accessories

39	Name of the Equipment / Goods	Wireless Clip Microphone System
	Make & Model	
	Operating range	Minimum 90 meter
	Operating Time (Tx/Rx)	Minimum 7 hours
	Audio Frequency Response	Min 50Hz ~ 20KHz range
	In-Built Mic Polar Pattern	Omnidirectional
	Microphone	Min 1x Transmitter and Receiver with Mic (Both) or Min 2x Transmitter with Mic
	Sound Pressure Level	Min 110dB
	Sample Rate	Min 48 kHz
	Output	Min 1x 3.5mm TRS Min 1x USB-C
	Power	Lithium Battery 5V USB
	Interfaces	3.5 mm Mic Out (Rx) USB-C PC Interface / Charging (Rx) 3.5 mm Mic In (Tx) USB-C Charging Port (Tx)
	Control Button	Mic: Power / Mute
	Mic Mounting	Pendant and Clip-On Style
	Dimension (Tx/Rx)	Max 60mm x 60mm x 20mm
	Accessories	Standard accessories and Cables

40	Name of the Equipment / Goods	Wireless Pendant Microphone System
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	Make & Model	
	Operating range	Minimum 18 meter
	Distortion	Max 0.8%
	Nosie / Feedback Reduction	Should have Nosie / Feedback Reduction
	Battery (Transmitter side Only)	Minimum 350 mAh lithium-ion or lithium-ion polymer
	Battery life	Minimum 7 Hours
	Interfaces	3.5 mm Mic Out (Rx) USB-C / Micro USB Power Port (Rx) 3.5 mm Mic In (Tx) USB-C / Micro USB Charging Port (Tx)
	Control Button	Mic: Power, Mute, Volume Adjustment
	Mic Mounting	Pendant and Clip-On Style
	Dimension (Tx)	Max 30mm x 30mm x 100mm
	Accessories	Pendant Necklace Rope / Chain, Power Adaptor, Standard accessories and Cables

41	Name of the Equipment / Goods	Wireless Presenter Lapel Microphone System
	Make & Model	
	Operating range	Minimum 25 meter
	Channels	Min 8 In-Built Selectable Channels
	Transmitter Type	Body Pack with Clip-on Lavalier Microphone
	Microphone Pattern	Cardioid
	Microphone Sensitivity	7mV – 10mV at 1 Pa
	Microphone Cable Length	Min 1.5 meter
	Channel Display and LED	Both Rx and Tx Should have selected channel display and Tx Battery Status LED Indication
	Tx Battery Type and Operation time (2500mAh)	1xAA Battery with Min 8 Hour Operation (or) 2xAA Battery with Min 12 Hour Operation
	Tx Controls	ON/OFF Gain Adjustment Channel Change
	Tx Audio Input	Mini XLR / 3.5mm
	Tx Signal to Noise Ratio	101dB – 106dB
	Tx Body Pack Weight	Max 100 grams
	Rx Audio Outputs	Min 1x Balanced XLR Min 1x ¼" (6.3 mm) Jack
	Rx Controls	ON/OFF Volume Adjustment Channel Change
	Accessories	Standard accessories and Cables

42	Name of the Equipment / Goods	Dual Band Wireless Lapel + Hand Microphone System
	Make & Model	
	Operating range	Minimum 25 meter
	Transmitter Type	Min 1x Handheld Microphone Min 1x Body Pack with Clip-on Lavalier Microphone
	Microphone Pattern	Cardioid
	Lapel Microphone Sensitivity	7mV – 10mV at 1 Pa

Lavalier Microphone Cable Length	Min 1.5 meter
Status LED	Tx Battery Status LED Indication
Tx Battery Type and Operation time (2500mAh)	1xAA Battery with Min 8 Hour Operation (or) 2xAA Battery with Min 12 Hour Operation
Tx Controls	ON/OFF Gain Adjustment (Lavalier Microphone Tx)
Tx Audio Input	Mini XLR / 3.5mm (Lavalier Microphone Tx)
Tx Signal to Noise Ratio	101dB – 106dB
Tx Body Pack Weight	Max 100 grams
Rx Audio Outputs	Min 2x ¼” (6.3 mm) Jack / XLR
Rx Controls	ON/OFF Volume Adjustment
Accessories	Standard accessories and Cables

43	Name of the Equipment / Goods	Dual Band Wireless Clip + Hand Microphone System
	Make & Model	
	Operating range	Minimum 100 meter
	Transmitter Type	Min 1x Hand Microphone (Easy Transferable/throwable - Ball/Box Type), Min 1x Clip & Wearable Microphone
	Audio Latency	Max 15ms
	Microphone element	Electret condenser
	Microphone Pattern	Omni-directional
	Frequency Response	Min 50Hz-20kHz
	Status LED	Tx Battery Status LED Indication
	Tx Battery Type and Operation time	Clip Mic - Min 8 Hour Operation Hand Mic - Min 10 Hour Operation
	Battery Type	Li-ion
	Charger	Min 1x Wireless Charger for Hand Mic Min 1x Dock Charger for clip mic
	Tx Controls	Mute
	Tx Audio Input	Mini XLR / 3.5mm (Lavalier Microphone Tx)
	Tx Body Pack Weight	Max 100 grams
	Rx Audio Outputs	Min 1x XLR – balanced for Each Mic Min 1x RCA / ¼” Jack Unbalanced Mix Out Min 1x USB-C Mix Out
	Rx Controls	ON/OFF, Volume Adjustment
	Logo / Stickers	Logo and Color Customization
	Accessories	Case, Standard accessories and Cables

44	Name of the Equipment / Goods	Dual Band Wireless Handheld Microphone System
	Make & Model	
	Operating range	Minimum 25 meter
	Transmitter Type	Min 2x Handheld Microphone
	Microphone Pattern	Cardioid
	Status LED	Tx Battery Status LED Indication
	Tx Battery Type and Operation time (2500mAh)	1xAA Battery with Min 8 Hour Operation (or) 2xAA Battery with Min 12 Hour Operation

	Tx Controls	ON/OFF
	Tx Signal to Noise Ratio	100dB – 106dB
	Rx Audio Outputs	Min 2x ¼” (6.3 mm) Jack / XLR
	Rx Controls	ON/OFF Volume Adjustment
	Accessories	Standard accessories and Cables

45	Name of the Equipment / Goods	Gooseneck microphone
	Make & Model	
	Pickup Patterns	Omni Directional
	Frequency Bandwidth	Min 20Hz to 18KHz range
	Sensitivity	7.5 – 10 mV/Pa
	Interface	XLR
	Gooseneck Length	Min 23 inch

46	Name of the Equipment / Goods	Boundary Layer Microphone for Podium
	Make & Model	
	Pickup Patterns	Hyper cardioid / Semi cardioid / Cardioid
	Frequency Bandwidth	Min 40Hz to 15KHz range
	Sensitivity	15mV – 22mV
	Interfaces	Mini XLR to XLR
	Control	Mute with LED Indication
	Cable Length	Min 5.5 Meters
	Power	48V Phantom Power

47	Name of the Equipment / Goods	Rechargeable AA Battery 4 Nos Pack with Charger
	Make & Model	
	Battery	NiMH
	Voltage	1.2v
	Capacity	Min 2500mAh
	Recharge Cycle	Min 500 times
	Discharging Feature	Self-Low Discharging


48	Name of the Equipment / Goods	Rechargeable AA Battery Charger
	Make & Model	
	Battery Charging Capacity	Min 4x AA / AAA
	Output Current	240mA
	Charging Time	Max 4 Hours for 4x AA Batteries
	LED Indication	Battery Capacity Status Battery Health 4x LED Indicator with Three Color
	Charge Control	Individual control
	Protection	Short Circuit Protection Overflow Stop Control
	Power	Wall Plug 240v


49	Name of the Equipment / Goods	Audio and Speaker Cable 300M
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	Make & Model	
	Cable Length	Min 300 Meter
	Conductor Material	Bare Copper
	Conductor Size	2x16 AWG with Min 1.45 mm Diameter
	Insulation Material	Min 0.2mm thickness PVC with Black and Red Color Coded
	Outer Jacket Material	PVC with Min 0.15mm thickness
	Operating Temperature	Min 0-75°C
	Environmental Compatibility	Indoor, Indoor - Plenum
	Protection	IEC 60332-1-2 or equivalent

50	Name of the Equipment / Goods	PVC Conduit/Casing 1.5" sq
	Length	Min 2 Meter
	Standard	ISI
	Color	White

51	Name of the Equipment / Goods	PVC Conduit/Casing 25 mm
	Length	Min 2 Meter
	Standard	ISI
	Color	White

52	Name of the Equipment / Goods	14 feet Portable & Compact Folding Aluminum Multipurpose Ladder
	Structure / Possible Configuration	
	Expanded Height	Min 14 feet
	Steps	Min 16 Steps (4+4+4+4)
	Frame Material	6063 T5 Grade Aluminum Alloy with 1.5mm thickness
	Corrosion resistance coating	anodized silver finish
	Safety feature	Security lock hinges Stabilizer bar at the bottom anti-skid PVC/Rubber shoes industrial grade height-locking latches
	Safety Compliance	En-131 or Equivalent
	Load Capacity	Min 120kg
	Weight	Max 15kg

53	Name of the Equipment / Goods	16 feet Aluminum Telescopic Ladder
	Structure / Possible Configuration	
	Expanded Hight	Min 16 feet
	Steps	Min 16 Steps (8+8)
	Frame Material	6063 T5 Grade Aluminum Alloy with 1.5mm thickness
	Foldable Size	Max 100cm
	Corrosion resistance coating	anodized silver finish
	Safety feature	Security lock hinges Stabilizer bar at the bottom anti-skid PVC/Rubber shoes industrial grade height-locking latches
	Safety Compliance	En-131 or Equivalent
	Load Capacity	Min 140kg
	Weight	Max 18kg

54	Name of the Equipment / Goods	Self-Supporting Foldable Triple Step Extension Ladder
	Structure / Possible Configuration	
	Expanded Hight	Min 15 feet
	Steps	Min 18 A Ladder Steps + Min 5 Extension ladder steps
	Frame Material	6063 T5 Grade Aluminum Alloy with 1.5mm thickness
	Corrosion resistance coating	anodized silver finish

Safety feature	Stabilizer bar at the bottom anti-skid PVC/Rubber shoes industrial grade height-locking latches
Safety Compliance	En-131 or Equivalent
Load Capacity	Min 120kg
Weight	Max 35kg

55	Name of the Work / Service	Installation, Integration and Commissioning for Type-1 Hybrid AV Class Room (108-Seater)
	Audio	<ol style="list-style-type: none"> 1. Should install the ceiling speakers in the class room listener's area as per the room dimensions & Layout. (Refer Annexe-V Page No.67) 2. Installation of the speaker covers Cable Wiring, Crimping, Laying, Soldering, Sound coverage area planning, mounting, Impedance matching, Wattage / Volt tuning, Connector, Jacks and Accessories fitting. 3. The Installation of Speaker and Amplifier sound @ 60-65dB should be covering the whole room (listener's area) in 65% volume without noise and howling. 4. The Speaker installation should have very less echo. 5. Should configure the Tuning and levelling the mixer mics and line inputs for amplifier and speaker output. 6. Should configure the Mixer USB I/O with the Thin Client PC for Mic & Sound Output 7. Should install the PVC Casing and Capping for the Audio, Speaker and USB cables and Wiring. 8. Should utilize the existing casing and capping wherever available and install fresh casing and capping wherever the facilities are not available. 9. Should install the speakers in the ceiling of the classroom.
	Video Conferencing Camera	<ol style="list-style-type: none"> 10. Should Configure the Lecture Tracking camera to track the presenter movement up to +/- 160-degree range. 11. Should Adjust and Tune the Camera Brightness, Contrast and Color levels as per the room lighting condition 12. Should install the Camera Mount from the ceiling and lay the USB, Audio-In Cable from the Podium Thin Client PC 13. Should Configure the camera to stream the Video signals without delay on both USB and Network.
	Podium	<ol style="list-style-type: none"> 14. Should integrate the equipment's, devices and connections as per the podium schematic layout (Refer Annexe-IV Page No.65.66) 15. Should install and configure the podium as per selected device configuration / models (Thin client PC, Mixer, Amplifier, Volume controller, Docking Station, UPS) 16. Should arrange and dressing the all AV, USB, Power cables. 17. Should Integrate and Connect the Podium with Existing Interactive Display and Projector

56	Name of the Work / Service	Installation, Integration and Commissioning for Type-2 Hybrid AV Class Room (64-Seater)
	<p>Audio</p> <ol style="list-style-type: none"> 1. Should install the ceiling speakers in the class room listener's area as per the room dimensions & Layout. (Refer Annexe-V Page No.68) 2. Installation of the speaker covers Cable Wiring, Crimping, Laying, Soldering, Sound coverage area planning, mounting, Impedance matching, Wattage / Volt tuning, Connector, Jacks and Accessories fitting. 3. The Installation of Speaker and Amplifier sound @ 60-65dB should be covering the whole room (listener's area) in 65% volume without noise and howling. 4. The Speaker installation should have very less echo. 5. Should configure the Tuning and levelling the mixer mics and line inputs for amplifier and speaker output. 6. Should configure the Mixer USB I/O with the Thin Client PC for Mic & Sound Output 7. Should install the PVC Casing and Capping for the Audio, Speaker and USB cables and Wiring. 8. Should utilize the existing casing and capping wherever available and install fresh casing and capping wherever the facilities are not available. 9. Should install the speakers in the ceiling of the classroom. <p>Video Conferencing Camera</p> <ol style="list-style-type: none"> 10. Should Configure the Lecture Tracking camera to track the presenter movement up to +/- 160-degree range. 11. Should Adjust and Tune the Camera Brightness, Contrast and Colour levels as per the room lighting condition 12. Should install the Camera Mount from the ceiling and lay the USB, Audio-In Cable from the Podium Thin Client PC 13. Should Configure the camera to stream the Video signals without delay on both USB and Network. <p>Podium</p> <ol style="list-style-type: none"> 14. Should integrate the equipment's, devices and connections as per the podium schematic layout (Refer Annexe-IV Page No.65.66) 15. Should install and configure the podium as per selected device configuration / models (Thin client PC, Mixer, Amplifier, Volume controller, Docking Station, UPS) 16. Should arrange and dressing the all AV, USB, Power cables. 17. Should Integrate and Connect the Podium with Existing Interactive Display and Projector 	

57	Name of the Work / Service	Installation, Integration and Commissioning for Type-1 Basic AV Class Room (108-Seater)
	<p>Audio</p> <ol style="list-style-type: none"> 1. Should install the ceiling speakers in the class room listener's area as per the room dimensions & Layout. (Refer Annexe-V Page No.69) 2. Installation of the speaker covers Cable Wiring, Crimping, Laying, Soldering, Sound coverage area planning, mounting, Impedance matching, Wattage / Volt tuning, Connector, Jacks and Accessories fitting. 	

	3.	The Installation of Speaker and Amplifier sound @ 60-65dB should be covering the whole room (listener's area) in 65% volume without noise and howling.
	4.	The Speaker installation should have very less echo.
	5.	Should configure the Tuning and levelling the mixer mics and line inputs for amplifier and speaker output.
	6.	Should configure the Mixer USB I/O with the Thin Client PC for Mic & Sound Output
	7.	Should install the PVC Casing and Capping for the Audio, Speaker and USB cables and Wring.
	8.	Should utilize the existing casing and capping wherever available and install fresh casing and capping wherever the facilities are not available.
	9.	Should install the speakers in the ceiling of the classroom.
	Podium	
	10.	Should integrate the equipment's, devices and connections as per the podium schematic layout (Refer Annexe-IV Page No.65.66)
	11.	Should install and configure the podium as per selected device configuration / models (Thin client PC, Mixer, Amplifier, Volume controller, Docking Station, UPS)
	12.	Should arrange and dressing the all AV, USB, Power cables.
	13.	Should Integrate and Connect the Podium with Existing Interactive Display and Projector

58	Name of the Work / Service	Installation, Integration and Commissioning for Type-2 Basic AV Class Room (64-Seater)
	Audio	
	1.	Should install the ceiling speakers in the class room listener's area as per the room dimensions & Layout. (Refer Annexe-V Page No.70)
	2.	Installation of the speaker covers Cable Wiring, Crimping, Laying, Soldering, Sound coverage area planning, mounting, Impedance matching, Wattage / Volt tuning, Connector, Jacks and Accessories fitting.
	3.	The Installation of Speaker and Amplifier sound @ 60-65dB should be covering the whole room (listener's area) in 65% volume without noise and howling.
	4.	The Speaker installation should have very less echo.
	5.	Should configure the Tuning and levelling the mixer mics and line inputs for amplifier and speaker output.
	6.	Should configure the Mixer USB I/O with the Thin Client PC for Mic & Sound Output
	7.	Should install the PVC Casing and Capping for the Audio, Speaker and USB cables and Wring.
	8.	Should utilize the existing casing and capping wherever available and install fresh casing and capping wherever the facilities are not available.
	9.	Should install the speakers in the ceiling of the classroom.
	Podium	
	10.	Should integrate the equipment's, devices and connections as per the podium schematic layout (Refer Annexe-IV Page No.65.66)
	11.	Should install and configure the podium as per selected device configuration / models (Thin client PC, Mixer, Amplifier, Volume controller, Docking Station, UPS)
	12.	Should arrange and dressing the all AV, USB, Power cables.
	13.	Should Integrate and Connect the Podium with Existing Interactive Display and Projector

59	Name of the Work / Service	Installation, Integration and Commissioning Hybrid AV Seminar Hall
	<p>Audio</p> <ol style="list-style-type: none"> 1. Should configure the Tuning and levelling the mixer mics and line inputs for amplifier and speaker output. 2. Should configure the Mixer USB I/O with the Thin Client PC for Mic & Sound Output 3. Should connect the existing Amplifier and Speakers with Mixer. <p>Video Conferencing Camera</p> <ol style="list-style-type: none"> 4. Should Configure the 360-degree camera to track the presenter using Video and Mic 5. Should Adjust and Tune the Camera Brightness, Contrast and Color levels as per the room lighting condition 6. Should install the Camera with tripod and lay the USB cable to the Podium Thin Client PC 7. Should Configure the camera to stream the Video signals without delay <p>Podium</p> <ol style="list-style-type: none"> 8. Should integrate the equipment's, devices and connections as per the podium schematic layout (Refer Annexe -IV Page No.65.66) 9. Should install and configure the podium as per selected device configuration / models (Thin client PC, Mixer, Amplifier, Volume controller, Docking Station, UPS) 10. Should arrange and dressing the all AV, USB, Power cables. 11. Should Integrate and Connect the Podium with Existing Interactive Display and Projector 	

60	Name of the Work / Service	Onsite Manpower for 1 Year - 2 Technicians
		<ol style="list-style-type: none"> 1. Bidder should deploy Two Onsite Technician for the period of 1 Year. 2. This contract 1 Year period will start from the date successful commissioning. 3. The Technician should support and maintain all the Installed items during the contract period of 1 Year. 4. Technician Should have knowledge on AV Equipment's and cloud applications. 5. Should follow-up the equipment's working status and log the warranty service. 6. Should Install the available spare and warranty replacement equipment's in faulty equipment location. 7. Should send the usage and working status report to the reporting officer (will be decided by the Institute) of the equipment's on every week. 8. The Technician should work from Monday to Saturday from 9 A.M to 6 P.M. 9. The attendance of the Technician will be entered in the register provided by the Institute. The person deployed should be polite, cordial and efficient while handling the assigned work and her actions should promote good will and enhance the image of the Institute. Bidder shall be responsible for any act of indiscipline on the part of the persons deployed. 10. Consequent to poor performance of deployed manpower if any, Bidder shall immediately replace the Engineer thereby maintaining service levels and continuity. 11. NITT shall have the right, within reason, to have the Technician removed who is considered to be undesirable with proper reasoning or otherwise and similarly Bidder reserves the right to remove the support Technician with prior intimation to the NITT, emergencies, exempted.

	<p>12. Salary of the Technician Should not be below the <u>Highly Skilled</u> category as per Minimum Wages act. Ref:1. https://clc.gov.in/clc/min-wages Ref:2. https://clc.gov.in/clc/node/720 (Page.No.3)</p> <p>13. The monthly salary component for the Technician should include not be below the Basic Wages as mandatory component and PF and ESI wherever applicable as per statutory requirement.</p> <p>14. In case of any changes in the minimum wages as per the applicable laws during the contract period, the bidder shall pay the difference wages to the Technician.</p> <p>15. Technician Should be available during working hours for 6 days in a week.</p> <p>16. NIT Tiruchirappalli shall not be responsible for any financial loss or any injury to any person deployed by the bidder in the course of their performing the function / duties, or for payment towards any compensation.</p> <p>17. NIT Tiruchirappalli will extend the Onsite Manpower for the Second and Third Year after monitoring / evaluating the performance of Onsite Technicians in the first year. The payment for the onsite technicians will be done as per the rate quoted for the first year.</p>
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Note:

- 1) Technical Specification should be duly filled by the bidder no fields were left blank and appropriate value will be filled. (don't fill it as Yes complied or Yes).**
- 2) A separate excel worksheet (TEC---1920.xls) is available in the tender document, the same to be filled in and uploaded along with the tender document.**

Technical Evaluation:

1. The quoted components will be checked for the conformity of the specifications as mentioned in the bidding document with the datasheet and brochures which are provided by the bidder.
2. After the prequalification process the Bidder should Install and Perform PoC in a Room with Quoted items of the same brand and model for one room only in each 108-Seater Hybrid and 64-Seater Hybrid Class Rooms.
3. The bidder should bring the following quoted items for PoC
 - a. Amplifier (Item No. 35,36)
 - b. Speakers – 4 Nos (Item No. 37,38 or anyone of the item - if same make / model series)
 - c. Microphones (Item No.39,40,41,42,46),
 - d. Mixer (Item No. 33,34 or anyone anyone of the item - if same make / model series),
 - e. Lecture Tracking PTZ camera with Ceiling Mount (Item No. 17,18) which are required for each room type.
 - f. USB Docking Station (Item No. 9)
4. Any shortage of device during POC or if the bidder fails to do the POC within the given date will lead to disqualification in the technical evaluation.
5. The POC demonstration should show the optimal audio decibels (60-65dB), pleasant sound and non hinderance (loud noise) to the adjacent classrooms. The bidder should install the devices (especially speakers) in the room for the POC.
6. The bidder shall be technically qualified after complying with the specifications of the devices and the successful demonstration of the POC.

Annexure – III Warranty Details

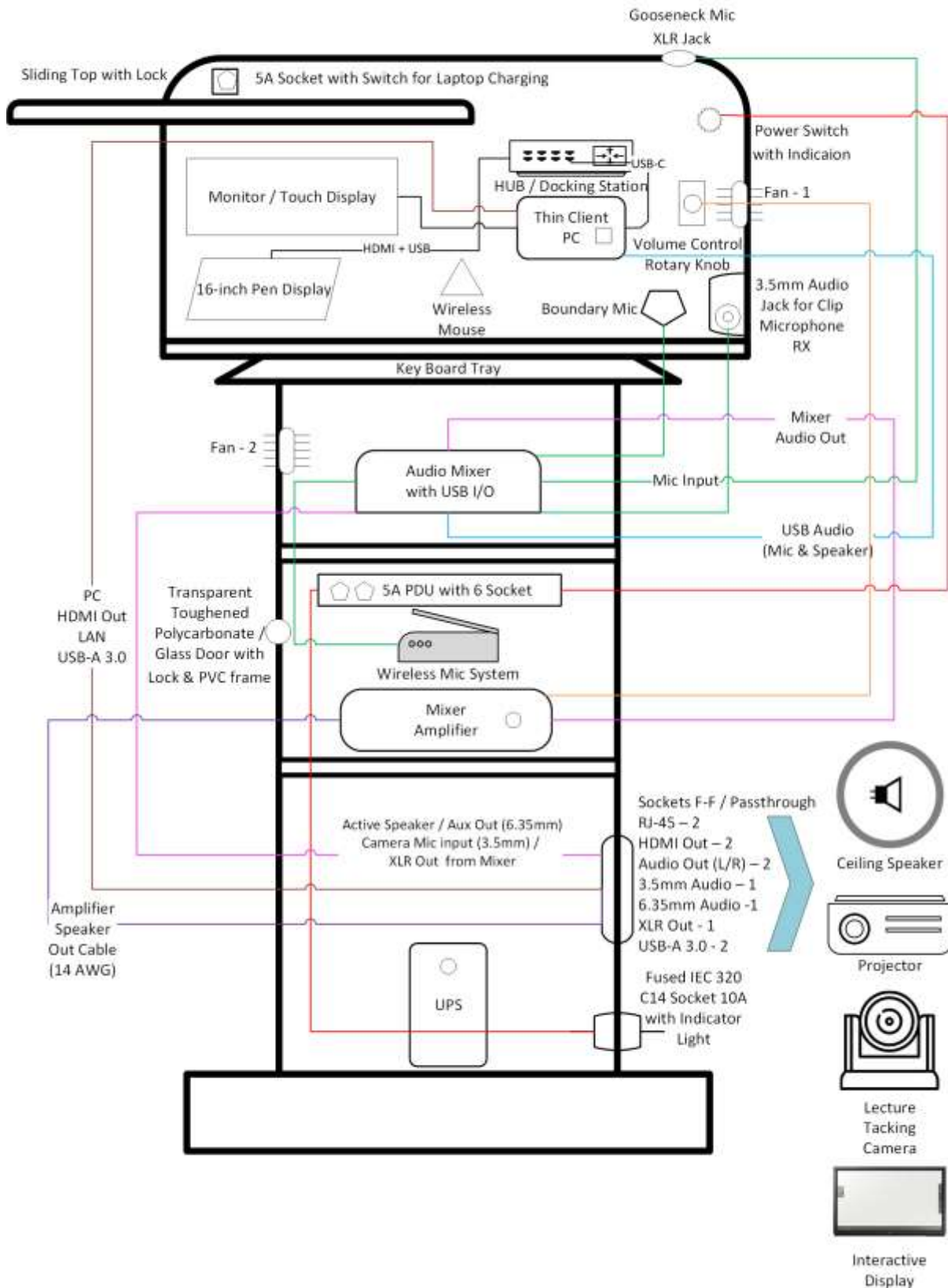
Item Group / Category	Item. No	Supply, Installation and Commissioning Items Name & Description	Comprehensive On-Site Warranty in Months (Minimum)
Furniture	1	Podium	60
	2	Tall Stool	36
Power Devices	3	1kVA Single Phase UPS	24
	4	1.5kVA Single Phase UPS	24
Computer Devices	5	Pen Display	36
	6	Thin Client PC	60
	7	Wireless Keyboard and Mouse	36
	8	Laptop	60
	9	USB Docking Station	36
	10	USB External Sound Card Adapter 3 in 1	36
Network Devices	11	Wifi-6 Router	36
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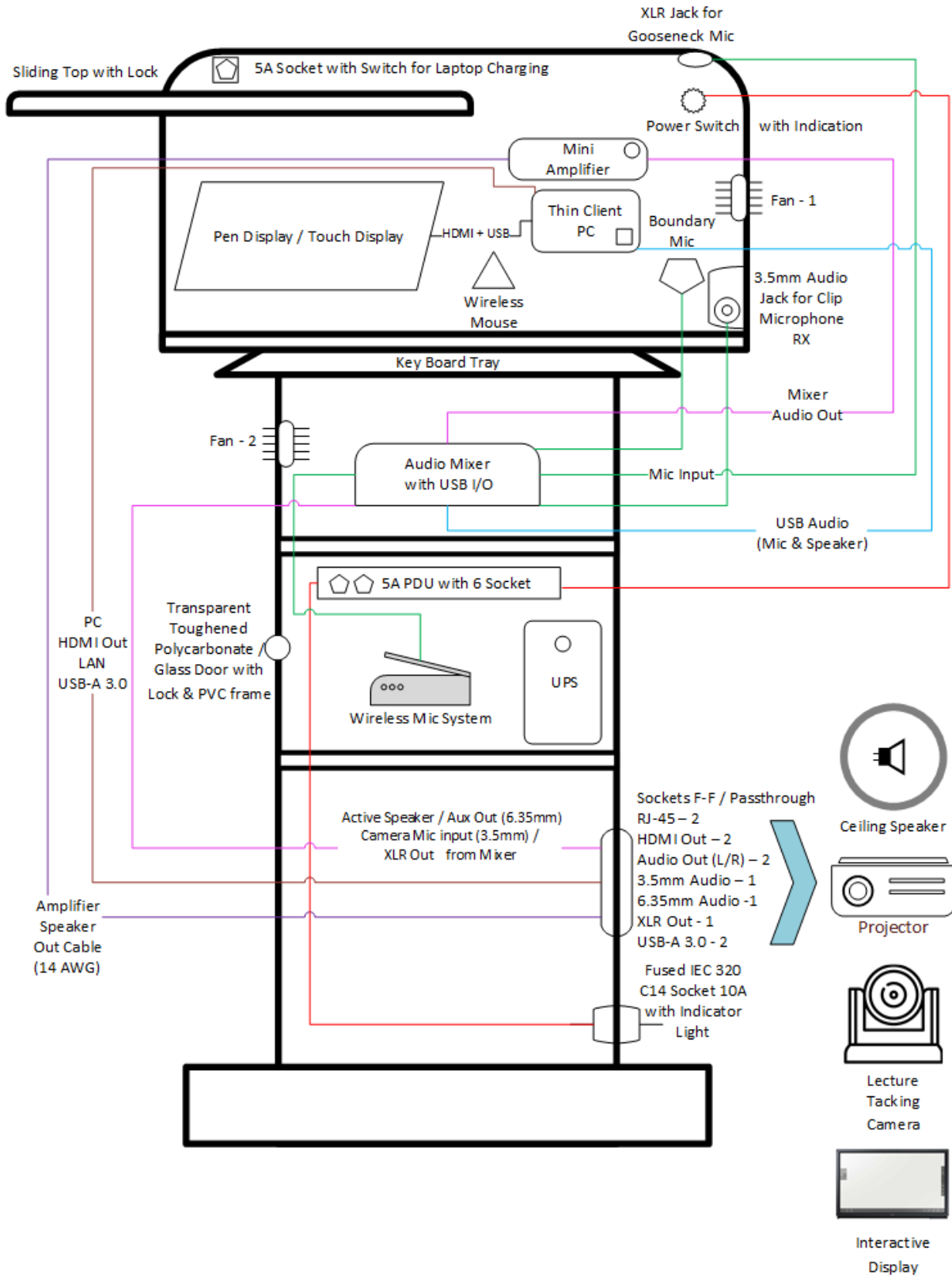
S. No	Item. No	Manufacturer Authorization Form (MAF) required Items
1.	3	1kVA Single Phase UPS
2.	4	1.5kVA Single Phase UPS
3.	5	Pen Display
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22.	45	Gooseneck Microphone
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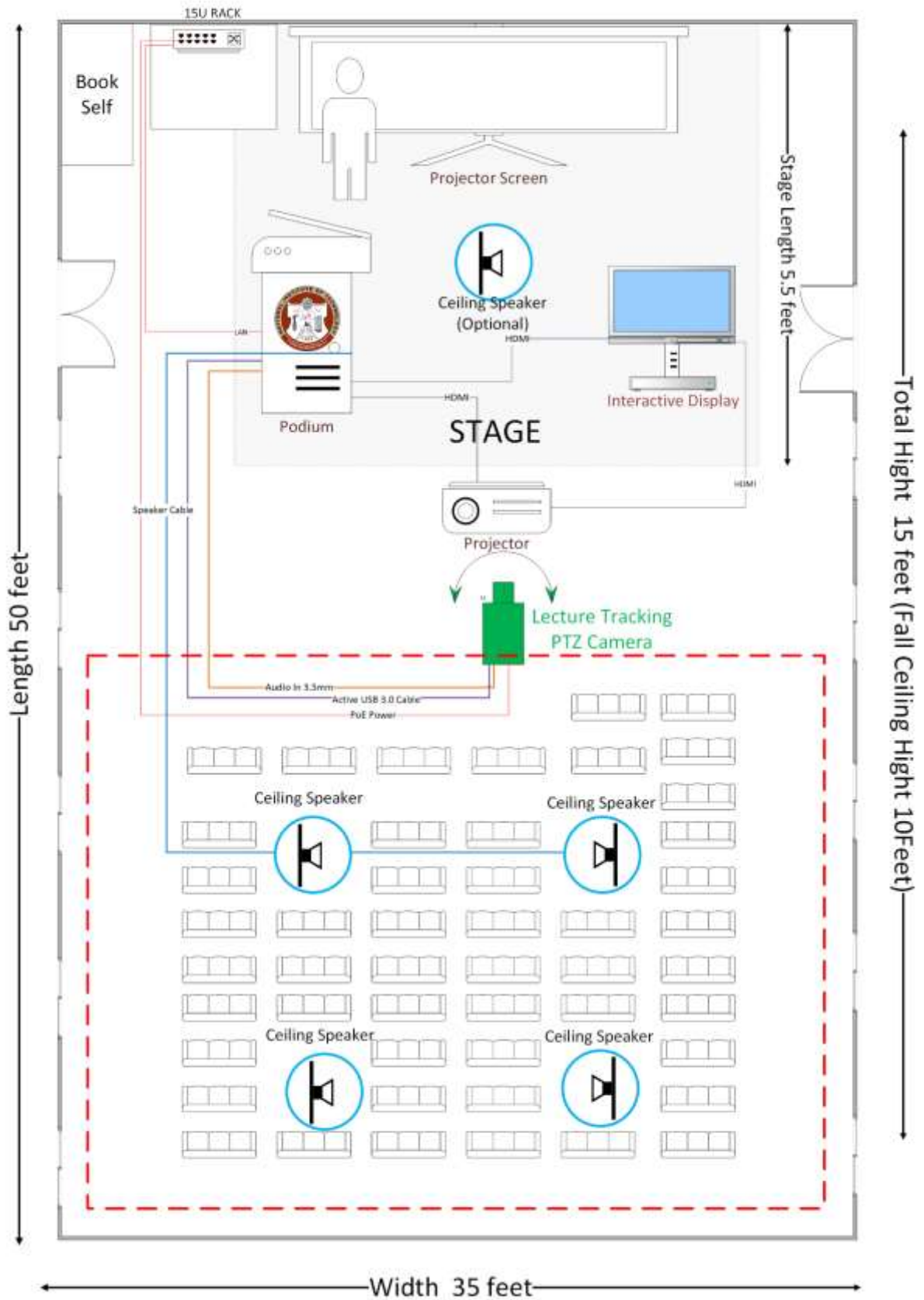
Podium Connection Layout with Mixer Amplifier



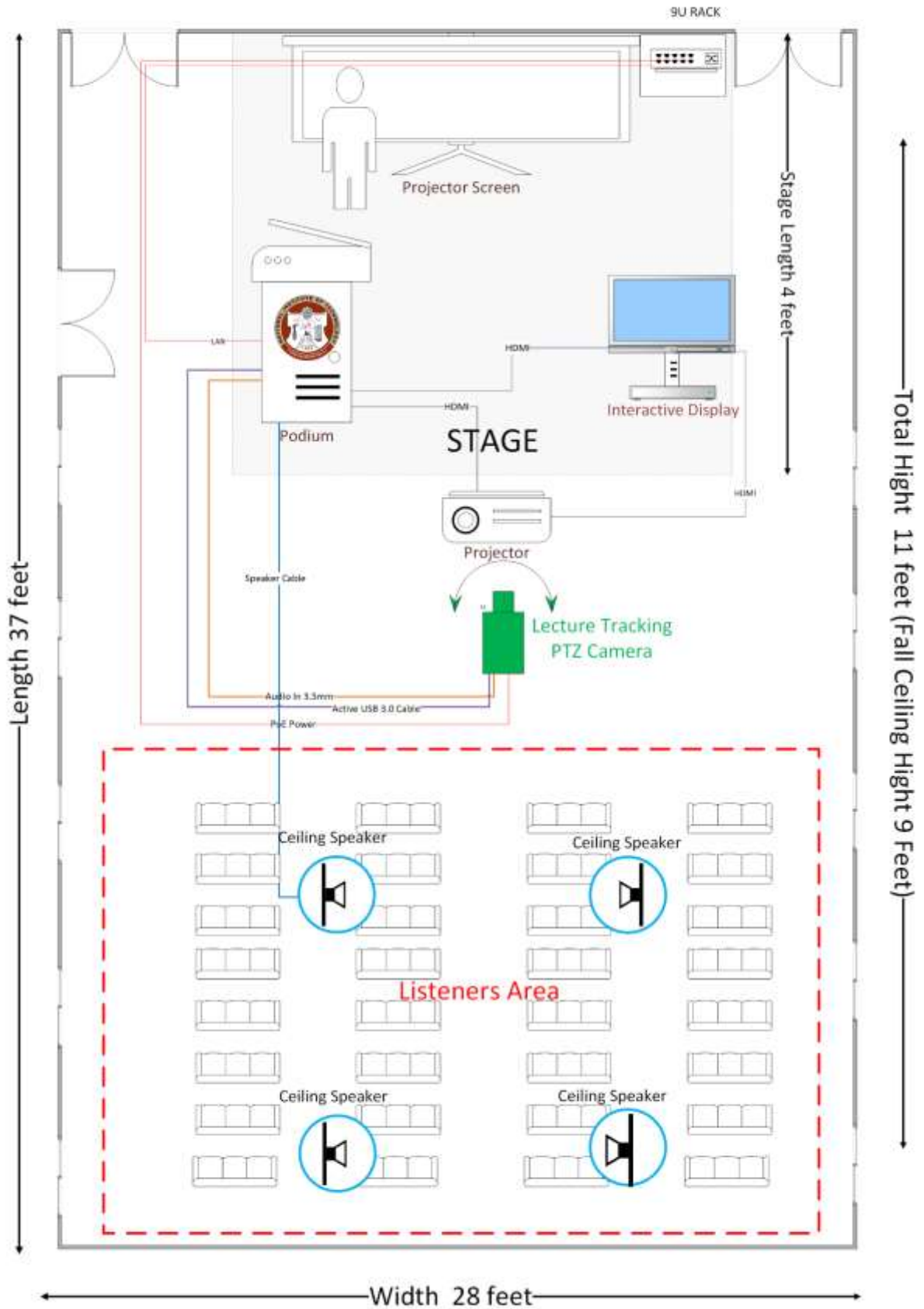
Podium Connection Layout with Mini-Amplifier



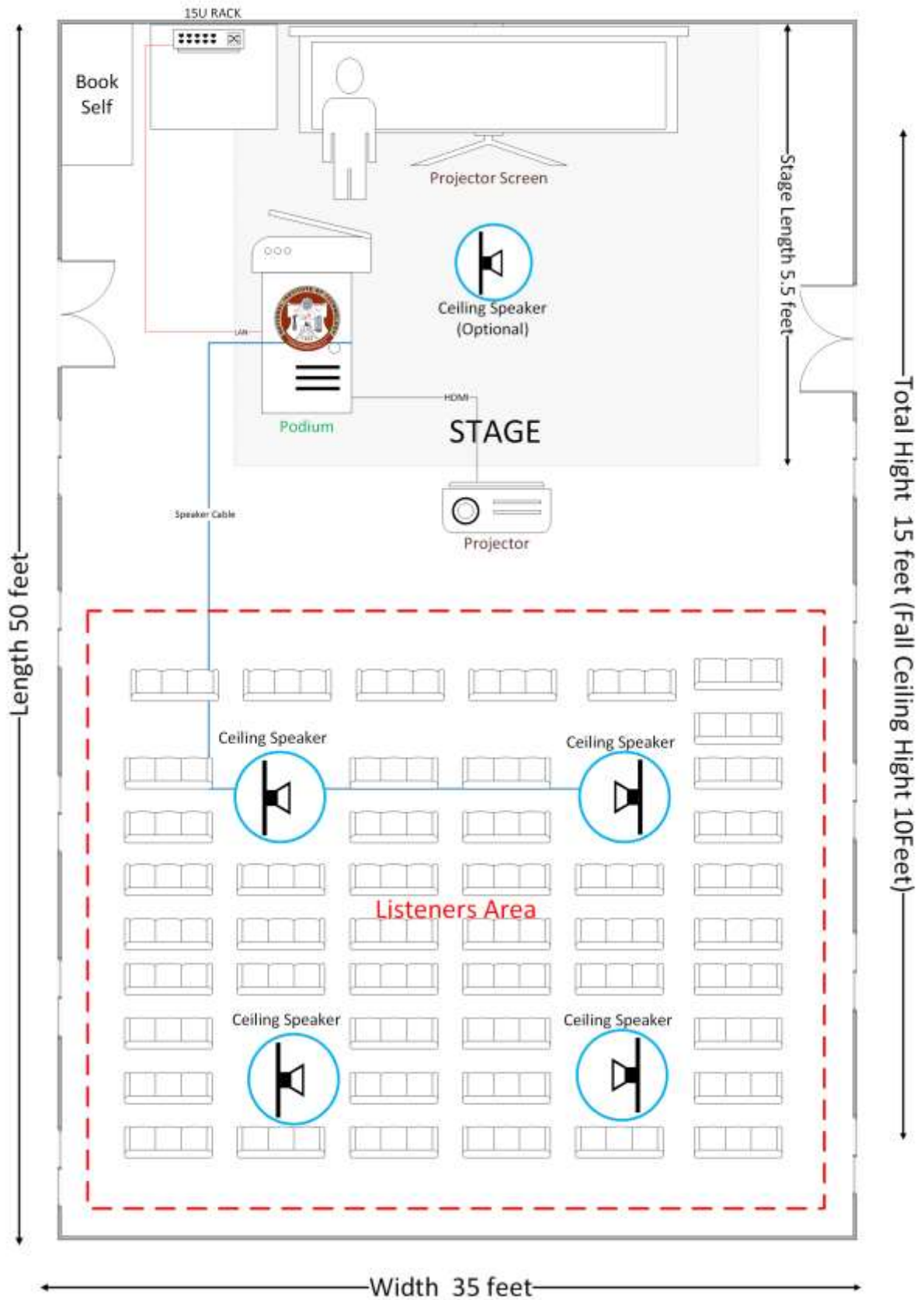
Type – 1 Hybrid AV Class Room (108 Seater-Orion FF)



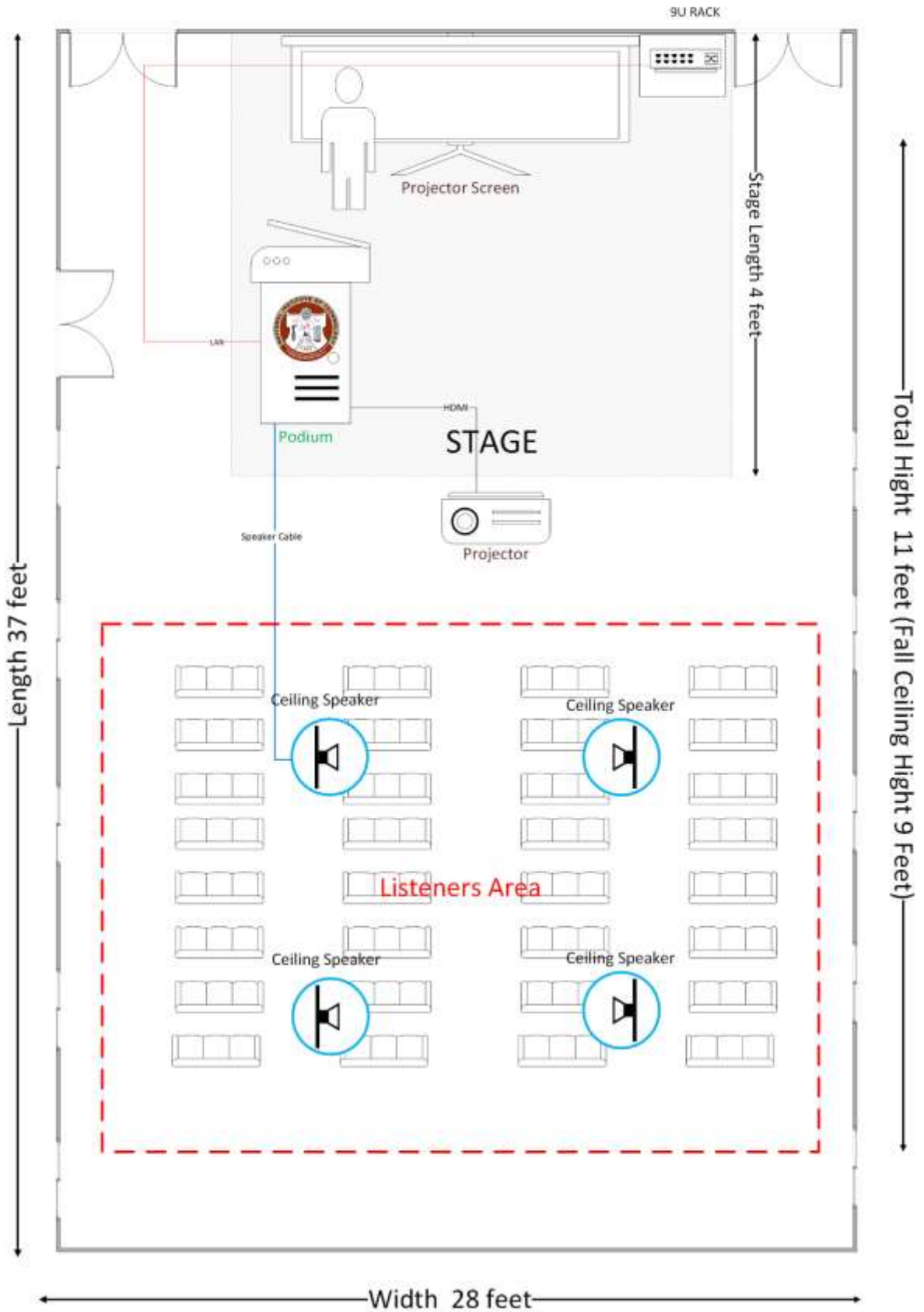
Type – 2 Hybrid AV Class Room (64 Seater - Logos)



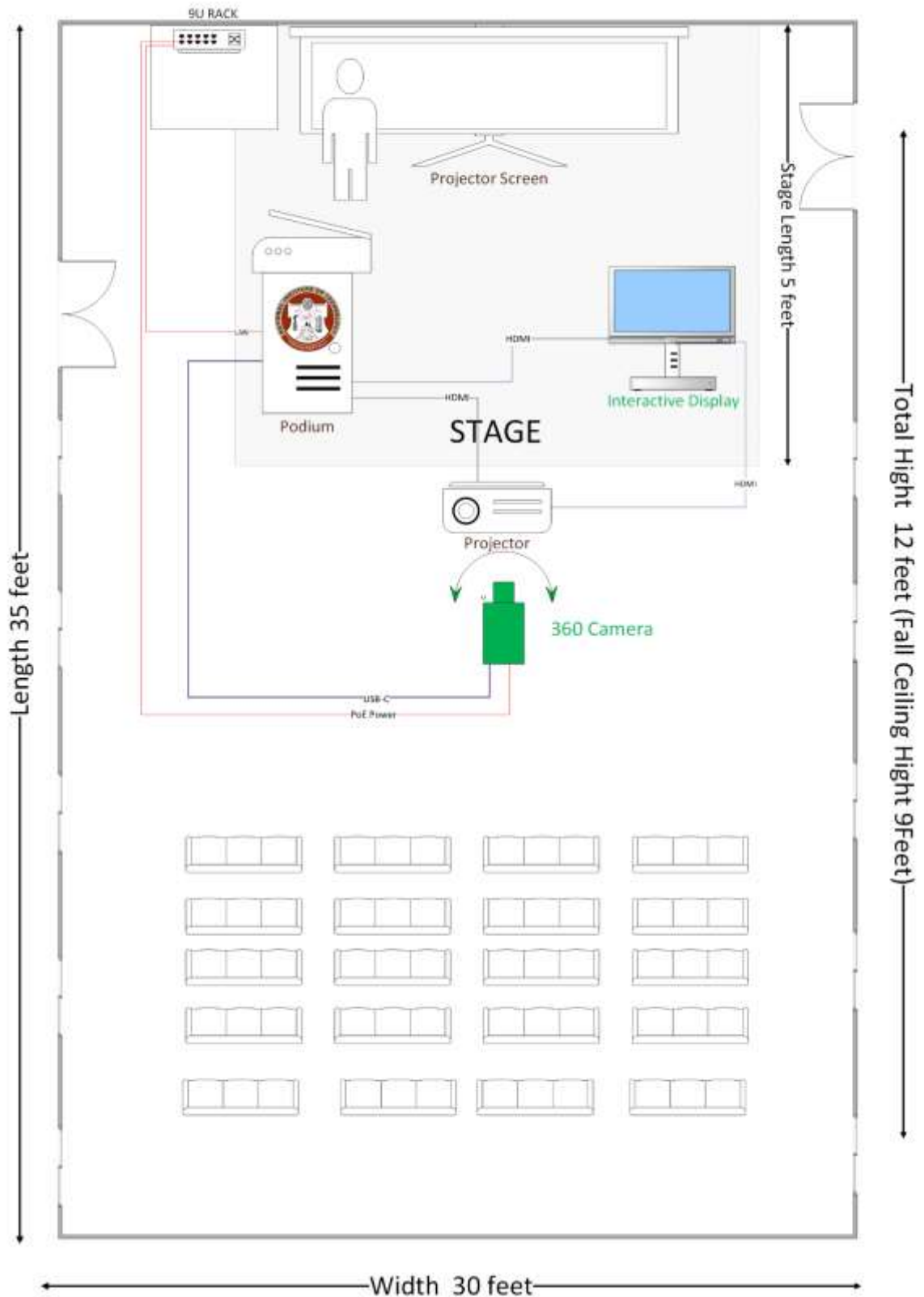
Type – 1 Basic AV Class Room (108 Seater - Orion FF)



Type – 2 Basic AV Class Room (64 Seater-Logos)



Hybrid AV Seminar Hall (Departments 45 Seater)



(to be printed in letter head)

ANNEXURE-VI

Self-Certification under preference to Make in India order

Certificate

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 and its amendments, we hereby certify that we M/s _____ are local supplier meeting the requirement of minimum local content i.e., _____% as defined in above orders for the material against IPR Enquiry/Tender No.....dated..... Details of location at which local value addition will be made as follows:

_____.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

Signature with date:

Name:

Designation:

Official Seal

Part-3 Contract
Section VII General Conditions of Contract
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6.	Joint Venture, Consortium or Association
7.	Eligibility
8.	Notices
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10.	Settlement of Disputes
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30.	Force Majeure
31.	Change Orders and Contract Amendments
32.	Extensions of Time
33.	Termination
34.	Assignment

Section VII General Conditions of Contract

1 Definitions: The following words and expressions shall have the meanings hereby assigned to them:

- a “NITT” means National Institute of Technology, Tiruchirappalli established under societies Registration Act XXVII of 1975.
- b “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- c “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- d “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- e “Day” means calendar day.
- f “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- g “GCC” means the General Conditions of Contract.
- h “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- i “The Project Site,” term where applicable, means the place of work named in the Special Conditions of Contract (SCC).
- j “Purchaser” means faculty, department and other entities of the competent for purchasing Goods and Services, as specified in the SCC.
- k “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
- l “SCC” means the Special Conditions of Contract.
- m “Subcontractor” means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- n “Supplier” means the person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
- o “The Project Site,” where applicable, means the place named in the SCC.

2 Contract Documents:

Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3 Corrupt and Fraudulent Practices:

The Institute requires compliance with its policy against the corrupt and fraudulent practices as set forth Section- V The Purchaser requires the Supplier to disclose any commissions or

fees that may have been paid or are to be paid to agents or any other party with respect to the bidding process or execution of the Contract. The information disclosed must include the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

4 Interpretation

4.1 The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.2 Amendment

No amendment or other variation of the Contract shall be valid unless it is reduced to writing, dated, expressly refers to the Contract, and is signed by the duly authorized representative of each party thereto.

4.3 Non waiver

a Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

b Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.4 Severability:

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5 5.1 Language:

The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in any language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, such translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6 Joint Venture, Consortium or Association:

If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

7 7.1 Eligibility:

The Bidder should not have been declared insolvent by the competent court.

7.2 The Bidder should not be disqualified for contract under the law of the India.

7.3 The Bidder should not be adjudged defaulter of Tax Payment under Income Tax Law or any other Law for the time being in-force.

7.4 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if

it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country. Nationality must be disclosed by the supplier

- 7.5 All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 8 8.1 **Notices** Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term “in writing” means communicated in written form with proof of receipt.
- 8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.
- 9 9.1 **Governing Law:**
The Contract shall be governed by and interpreted in accordance with the laws of India, unless otherwise specified in the SCC.
- 9.2 Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in India when
- a Throughout the execution of the Contract, the Contractor shall comply with the import of goods and services prohibitions in India when
 - b by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, India prohibits any import of goods from that country or any payments to any country, person, or entity in that country.
- 10 10.1 **Settlement of Disputes**
The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to settle the issue by arbitration, as hereinafter provided, as to the matter in dispute, no arbitration in respect of the matter be commenced unless such notice is given in accordance with this Clause for the final settlement of the matter. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
- 10.3 All questions, disputes and differences arising shall be referred by the The Director, National Institute of Technology, Tiruchirappalli to the sole arbitrator for arbitration under the provision of the Arbitrations and Conciliation Act, 1996.
- 11 **Obligations During Arbitrations**
Notwithstanding any reference to arbitration in Clause 10,
- a the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - b the Purchaser shall pay any amount due to the Supplier.
- 12 **Scope of Supply**
The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
- 13 **Delivery and Documents**
Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule

specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.

14 Suppliers Responsibilities

The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.

15 Contract Price

Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in the SCC.

16 16.1 Terms of Payment

Ordinarily, payments for services rendered or supplies made shall be released only after the services have been rendered or supplies appropriate to the requirement made. However, in following cases advance payments may be made if specified in SCC:

- a Advance payment demanded by firms holding maintenance contracts for servicing of Air-conditioners, computers, other costly equipment, etc.
- b Advance payment demanded by firms against fabrication contracts, turnkey contracts etc.
- c Such advance payment should not exceed the following limits: -
Thirty percent of the contract value to private firms;
- d Forty percent of the contract value to a State or central Government agency or a Public Sector Undertaking; or
- e In case of maintenance contract, the amount should not exceed the amount payable for six months under the contract.

16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfilment of all other obligations stipulated in the Contract.

16.3 Payments shall be made promptly by the Purchaser, within ninety (90) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it

16.4 The currencies in which payment shall be made to the supplier under this contract shall be Indian currency unless otherwise agreed.

17 17.1 Taxes and Duties

For goods manufactured outside India, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside India.

17.2 For goods Manufactured within India, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in India, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent or country or origin, the supplies shall provide benefit from any such tax sowing to the purchaser.

18 18.1 Performance Security:

If required as specified in the SCC, the Supplier shall, within twenty-one (21) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the SCC

- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency(ies) of the Contract or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the Purchaser in the SCC, or in another format acceptable to the Purchaser.
- 18.4 Performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligation.
- 18.5 Bid security shall be refunded to the successful bidder 6-8 weeks of receipt of performance security.
- 19 Copyright**
The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 20 20.1 Confidential Information**
The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.
- 20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:
- a Now or hereafter enters the public domain through no fault of that party;
 - b can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party;
 - or
 - c otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
- 20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.
- 21 21.1 Subcontracting**
The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid

or later on shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22 22.2 Specifications and Standards

Technical Specifications and Drawings

a The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section-VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin or India.

b Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23 23.1 Packaging and Documents

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

24 Insurance

Unless otherwise specified in the SCC, the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC.

25 25.1 Transportation and Incidental Services

The Supplier is required under the Contract to transport the Goods to a specified place of final destination within India, defined as the Project Site, transport to such place of destination in India, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier, and related costs shall be included in the Contract Price"; or any other agreed upon trade terms (specify the respective responsibilities of the Purchaser and the Supplier)

25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- a performance or supervision of on-site assembly and/or start up of the supplied Goods;
- b furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- c furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;

- d performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - e training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
- 25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services otherwise shall be at the cost of suppliers.
- 26 26.1 Inspections and Tests**
- The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the SCC.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in India as specified in the SCC. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier, if permitted by the purchaser, shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.
- 27 Liquidated Damages**
- Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the

period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 33.

28 28.1 Warranty

The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to Sub-Clause 22.1(b) of GCC, the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.

28.3 Unless otherwise specified in the SCC, the warranty shall remain valid for **Item wise warranty specified in the Annexure-3** after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the SCC, or warranty period mentioned by supplier whichever period concludes later unless mutually agreed.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the SCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the SCC; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29 29.1 Patent Indemnity

The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

30 30.1 Force Majeure

For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

30.2 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably possible, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

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

31 31.1 Change Orders and Contract Amendments

The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- a drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- b the method of shipment or packing;
- c the place of delivery; and
- d the Related Services to be provided by the Supplier.

32 32.1 Extensions of Time

If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier’s notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier’s time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

32.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

33 33.1 Termination for Default

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

- a if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 32;
- b if the Supplier fails to perform any other obligation under the Contract; or
- c if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract

In the event the Purchaser terminates the Contract in whole or in part, pursuant to

GCC Clause 33.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

33.2 **Termination for Insolvency**

The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser.

33.3 **Termination for Convenience**

- a The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- b The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect :
 - (i) to have any portion completed and delivered at the Contract terms and prices ; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

34 **Assignment**

Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

35 If there is a discrepancy between unit price, the unit price will be considered. If there is any mismatch between figure and word, the amount in word shall prevail.

36 If any arithmetic mistake in total/GST calculation is observed, the same shall be corrected by the purchaser with an intimation to bidder.

37 Bids submitted without EMD(Unless exempted) will be treated as disqualified.

38 The successful bidder should submit Security Deposit/PBG within 15 days from the date of placement of order. The EMD shall be returned only after receipt of SD. If the bidder fails to deliver the material, then the EMD/SD shall be forfeited.

39 Make in India clause, applicable as per Govt. of India norms.

Make in India Purchase Preference: The components should comply with the latest orders related with Preference to Make in India. As per the Ministry of Commerce and Industry Order No. P-45021/2/2017-PP(BE-II) dated 04.06.2020 preference shall be given to Make in India products for which it is mandatory for bidders to declare Country of Origin of goods and percentage of Local contents in the product. (Declaration Format – Annexure VI Page No.72)

Definitions :

“Local Content” means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured

(excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

“Class-I local supplier” means a supplier or service provider, whose goods, services or works offered for procurement, has local content to or **more than 50%**, as defined under this order.

“Class-II local supplier” means a supplier or service provider, whose goods, services or works offered for procurement, has local content **more than 20%** but less than 50%, as defined under this order.

“Margin of purchase preference” means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for the purpose of purchase preference. (**Shall be 20%**)

- 40** Bids without quoting GST(unless exempted) will be considered as disqualified, unless specified in the tender document to quote only the basic price.

NIT, Tiruchirappalli

Section VIII Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC Clause Ref. No.	SCC
GCC 1.1 (i)	The Purchaser's country is: India.
GCC 1.1 (k)	The Purchaser is : THE DIRECTOR, NIT TIRUCHIRAPPALLI KIND ATTENTION TO : SHRI. T. KARTHICK RAJA, TECHNICAL OFFICER, DEPARTMENT OF COMPUTER SUPPORT GROUP
GCC 1.1 (j)	The Project Site(s)/Final Destination(s) is/are: DEPARTMENT OF COMPUTER SUPPORT GROUP, NIT TIRUCHIRAPPALLI.
GCC 5.1	The language shall be: English
GCC 8.1	For notices, the Purchaser's address shall be : Attention : SHRI.T.KARTHICK RAJA, TECHNICAL OFFICER Street Address : DEPARTMENT OF COMPUTER SUPPORT GROUP Floor/ Room number : - City : TIRUCHIRAPPALLI ZIP Code : 6 2 0 0 1 5 Country : India Phone : 0431-2503800, 9486001183 Electronic mail address : karthick@nitt.edu
GCC 9.1	The governing law shall be the law of India.
GCC 10.2	The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows : <i>Contracts with Supplier for arbitral proceeding</i> In the case of a dispute between the Purchaser and a Supplier, the dispute shall be referred to adjudication or arbitration in accordance with the laws of India by the arbitrator appointed by The Director,NITT, unless otherwise agreed.
GCC 13.1	Details of Shipping and other Documents to be furnished by the Supplier are : (i) An airway bill (ii) Insurance Certificate, (iii) Manufacturer's or Supplier's Warranty Certificate, (iv) Inspection Certificate issued by nominated inspection agency, (v) Supplier's factory shipping details etc. (vi) The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.

GCC 15.1	The prices charged for the Goods supplied and the related Services performed shall not be adjustable.
GCC 16.1	GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows : Payment for Goods and Services supplied from within India : Payment for Goods and Services supplied from within India shall be made in Indian Rupees , as follows : (i) On Delivery, Acceptance and Installation and Commissioning : Fifty (50%) percent of the Contract Price shall be paid on receipt of the Goods in good conditions, acceptance and remaining Fifty (50%) percent of the Contract Price shall be paid on receipt of the satisfactory installation, commissioning and functioning certificate provided by the Purchase Initiator.
GCC 18.1	A Performance Security shall be required @ 3% of contract price.
GCC 18.3	If required, the Performance Security shall be in the form of : Bank Guarantee/Bank Deposit Reciept/Demand Draft If required, the Performance security shall be denominated in Indian Rupees.
GCC 23.2	The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract.
GCC 24.1	The insurance coverage shall be as specified in the Incoterms. If not in accordance with Incoterms , insurance shall be as follows: NA
GCC 25.1	Responsibility for transportation of the Goods shall be as specified in the Incoterms. If not in accordance with Incoterms , responsibility for transportations shall be as follows: NA
GCC 25.2	Incidental services to be provided are: Selected services covered under GCC Clause 25.2 and/or other should be specified with the desired features. The price quoted in the bid price or agreed with the selected Supplier shall be included in the Contract Price.
GCC 26.1	The inspections and tests shall be: Equipment should be installed at site by designated engineer of the firm. Demonstration should be made to the satisfaction of the P.I. At least four free visits should be made by the engineer during the first year after installation to clarify and rectify any doubts or problems as may be faced by the user.
GCC 26.2	The Inspections and tests shall be conducted at the Department where the equipment is installed. For the rest please refer to GCC 26.1.
GCC 27.1	The liquidated damage shall be: 0.5% per week
GCC 27.1	The maximum amount of liquidated damages shall be: 5%
GCC 28.3	The period of validity of the Warranty shall be Item wise warranty specified in the Annexure-3 (Page No. 60,61) from date of acceptance/ satisfactory installation of the equipment. For purposes of the Warranty, the place(s) of final destination(s) shall be the Department where the equipment is installed. The Supplier shall, in addition, comply with the performance and/or consumption

	<p>guarantees specified under the Contract (if any). If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either :</p> <p>(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4, or</p> <p>(b) pay liquidated damages to the Purchaser with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.5% per week of actual value of the equipment (maximum 5%).</p>
GCC 28.5	<p>The period for repair or replacement for all items shall be: 14 days (Business / Working Days)</p>

NIT, Tiruchirappalli

Part-4
Bidding Forms & Contract Forms

NIT, Tiruchirappalli

Section IX : Bidding Forms

Table of Forms

1. Tender Form (Techno commercial un-priced Bid)
2. Tender Form (Price Bid)
3. Bidder Information Form
4. Manufacturer's Authorization
5. EMD Returning Form
6. Mandate Form For Electronic Fund Transfer/RTGS Transfer

NIT, Tiruchirappalli

(i) TenderForm

(Techno commercial un-priced Bid)

(On the letter head of the firm submitting the bid)

Tender No.

To

The _____

Dear Sir,

1. I/We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders;
2. I/We meet the eligibility requirements and have no conflict of interest;
3. I/We have not been suspended nor declared ineligible in India;
4. I/We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
5. I/We offer to supply the items as listed in the schedule to this tender hereto/portion thereof as you may specify in the acceptance of Tender at the price given in the said Schedule and agree to hold this offer open for a period of 120 Days from the date of opening of the tender.
6. I/we shall be bound by a communication of acceptance issued by you.
7. I/We have understood the Instruction to bidders and Conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly examined the specifications quoted in the Schedule hereto and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
8. A crossed Bank Draft in favor of the Director, National Institute of Technology, Tiruchirappalli for Rs. _____ (Rupees _____ only) as Earnest Money is enclosed. The Draft is drawn on _____ Bank payable at Tiruchirappalli.
9. The following have been added to form part of this tender.
 - (a) Samples of items quoted for, as per instructions provided in the schedule of requirement.
 - (b) Schedule of requirements, quoting the _____ make only duly signed and stamped. (without indicating price)
 - (c) Income Tax Return.
 - (d) Copy of last audited balance sheet.
 - (e) Copy of Valid GST/TAN/TIN.
 - (f) Copy of relevant major purchase orders valuing more than Rs. (_____) estimated

cost/- executed during last two years for Govt. Depts., PSUs & Central Autonomous bodies.

(g) Proof of manufacturing Unit, dealership certificate/general ordersuppliers.

(h) Statement of deviations from financial terms & conditions, if any.

(i) Any other enclosure. (Please give details)

10. We undertake to execute all orders which have been placed to meet emergent requirements on priority basis.

11. Certified that the bidder is:

(a) A sole proprietorship firm and the person signing the bid document is the sole proprietor / constituted attorney of the sole proprietor,

Or

(b) A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

Or

(c) A company and the person signing the document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions should invariable be duly attested by the person authorized to sign the biddocument).

12. We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.

13. If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;

14. We are not participating, as a Bidder or as a sub contractor, in more than one bid in this bidding process, other than alternative bids submitted;

15. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption.

Name of the Bidder* :

GSTIN Number of the Bidder

NSIC / MSME REGISTERED BIDDERS DETAILS (IF APPLICABLE)

[THE SCANNED COPY OF THE CERTIFICATE TO BE UPLOADED IN THE EMD SECTION]

MSME Registration Number & Validity of the Certificate

NSIC Government Registration Number & Validity of the Certificate

Name of the person duly authorized to sign :
the Bid on behalf of the Bidder**

Title of the person signing the Bid :

Signature of the person named above :

Date signed _____ :

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid Schedules.

Yours faithfully,

(Signature of bidder)

Dated this day of _____

Address:
.....
.....
.....

Telephone No.: _____

E-mail _____

Company seal

NIT, Tiruchirappalli

Tender Form

(Priced Bid)

(On the letter head of the firm submitting the bid document)

To

The _____

Ref: Tender No.....Dated:

Sir,

Having examined the bidding documents and having submitted the techno commercial unpriced bid for the same, we, the undersigned, hereby submit the priced bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

1. We hereby offer to supply the Goods/Services at the prices and rates mentioned in the enclosed schedule of requirement.
2. We do hereby undertake that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule of requirement and that we shall perform all the incidental services.
3. The prices quoted are inclusive of all charges net F.O.R NITT. We enclose herewith the complete Financial Bid as required by you. This includes:
 - a. Price Schedule (Bill of Quantity-BOQ).
 - b. Statement of deviations from financial terms and conditions.
4. We agree to abide by our offer for a period of 120 Days from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.
5. We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviations are only those mentioned in the statement of deviations from financial terms and conditions.
6. We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commissioner gratuity]**

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

7. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and

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

Certified that the bidder is:

A sole proprietorship firm and the person signing the bid document is the sole proprietor/ constituted attorney of sole proprietor,

Or

A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney,

Or

A company and the person signing the bid document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorized to sign the bid document.)

We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Signature of Bidder _____

Dated this day of _____

Details of enclosures _____

Full Address: _____

Telephone No. _____

Mobile No.: _____

E-mail: _____

Company Seal

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date : [insert date (as day, month and year) of Bid Submission]

ADVT. No. : [insert number of bidding process]

Alternative No.: [insert identification No if this is a Bid for an alternative]

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name : <i>[insert Authorized Representative's name]</i> Address : <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers : <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
1. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement. <input type="checkbox"/> In case of Government-owned enterprise or institution, documents establishing: <ul style="list-style-type: none">• Legal and financial autonomy• Operation under commercial law• Establishing that the Bidder is not dependent agency of the Purchaser
2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date :*[insert date(as day ,month and year)of Bid Submission]*

ADVT. No. : *[insert number of bidding process]*

Alternative No.:*[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

(TO BE PRINTED IN LETTER PAD OF THE FIRM)

EMD Returning Form

To
The Director
National Institute of Technology,

Tiruchirappalli – 620 015

Sub: Returning EMD amount submitted for the Tender / Quotation.

Sir / Madam,

Our firm has participated in the tender / quotation enquiry No mentioned below and produced the EMD amount through DD, details of the DD are given below.

Tender / Quotation Reference No	
EMD amount	
DD Number	
DD issued Bank	
Date of DD	

It is requested to return the EMD amount to our firm after completion of the purchase to the below mentioned Bank account.

Account Name	
Bank Account Number	
IFSC code	
Bank	

Signature with Seal and Date

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

To

The Director,
National Institute of Technology,
Tiruchirappalli – 620 015, Tamil Nadu

Sub	:	Authorization for release of payment / dues from National Institute of Technology, Tiruchirappalli through Electronic Fund Transfer/RTGS Transfer.
-----	---	--

1. Name of the Party / Firm / Company / Institute :
2. Address of the Party :
3. City _____ Pin Code _____
4. E-Mail _____ Mobile No: _____
5. Permanent Account Number _____
6. Particulars of Bank:

Bank Name:		Branch Name:	
PIN Code:		Branch Code:	
IFS Code:(11 digit alpha numeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Director, National Institute of Technology Tiruchirappalli responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____ Date: _

Signature & Seal of the Authorized Signatory of the Party

Section X. Contract Forms

This Section contains forms which, once completed, will form part of the Contract. The forms for Performance Security and Advance Payment Security, when required, shall only be completed by the successful Bidder after contractaward.

Table of Forms

	Forms	Page No
1.	Tender Acceptance Letter	
2.	Contract Agreement	
3.	Performance Security	
4.	Advance Payment Security	

Tender Acceptance Letter

(To be given on Company Letter Head)

Date:

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No. :

Name of Tender / Work :

Dear Sir,

1. I/We have downloaded/ obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from PageNo. _____ to _____ (including all documents like section(s), schedules(s) etc.), which form part of the contract agreement and I/we shall abide hereby by the terms/conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
4. I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality/entirety.
5. In case any provisions of this tender are found violated, then your department/organisation shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made

the *[insert: number]* day of *[insert: month]*, *[insert: year]*.

BETWEEN

1. *[insert complete name of Purchaser]*, a National Institute of Technology, Tiruchirappalli of the Ministry of Human resource and development of the Government of India (hereinafter called “the Purchaser”), of the one part, and
2. *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”), of the other part:

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) the Tender Forms
 - (c) the Addenda Nos. _____ (if any)
 - (d) Special Conditions of Contract
 - (e) General conditions of Contract
 - (f) The Specification (including Schedule of Requirements and Technical Specifications)
 - (g) the completed Schedules (including Price Schedules (BOQ))
 - (h) any other document listed in GCC as forming part of the Contract

1. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
2. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser Signed: *[insert signature]*

in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*

in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*

Performance Security
Option 1: (Bank Guarantee)

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

*[Guarantor letterhead or SWIFT identifier code] **Beneficiary:** [insert name and Address of Purchaser]*

Date: _ *[Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee referencenumber]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _ *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[Insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of _ *[insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (____) *[insert amount in words]*⁵, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...⁶, and any demand for payment under it must be received by us at this office indicated above on or before that date.

⁵ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

⁶ Insert the date twenty-eight days after the expected completion date as described in GC Clause 18.4. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Purchaser might consider adding the following text to the form, at the end of the pen ultimate paragraph:

"The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

NIT, Tiruchirappalli

Option 2: Performance Bond

By this Bond [*insert name of Principal*] as Principal (hereinafter called “the Supplier”) and [*insert name of Surety*] as Surety (hereinafter called “the Surety”), are held and firmly bound unto [*insert name of Purchaser*] as Obligee (hereinafter called “the Supplier”) in the amount of [*insert amount in words and figures*], for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Supplier and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by the seprents.

WHEREAS the Contractor has entered into a written Agreemen twith the Purchaser dated the _____ Day of _____, 20____, for [*name of contract and brief description of Goods and related Services*] in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as theContract.

NOW, THEREFORE, the Condition of this Obligation is such that, if the Supplier shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Supplier shall be, and declared by the Purchaser to be, in default under the Contract, the Purchaser having performed the Purchaser’s obligations there under, the Surety may promptly remedy the default, or shall promptly :

- (1) complete the Contract in accordance with its terms and conditions;or
- (2) obtain a Bid or bids from qualified Bidders for submission to the Purchaser for completing the Contract in accordance with its terms and conditions, and upon determination by the Purchaser and the Surety of the lowest responsive Bidder, arrange for a Contract between such Bidder and Purchaser and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Purchaser to Supplier under the Contract, less the amount properly paid by Purchaser to Contractor; or
- (3) pay the Purchaser the amount required by Purchaser to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted before the expiration of one year from the date of the issuing of the Taking-Over Certificate.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Purchaser named herein or the heirs, executors, administrators, successors, and assigns of the Purchaser.

In testimony whereof, the Supplier has here unto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this _____ day of _____ 20.

SIGNED ON _____ on behalf of

By _____ in the capacity

of _____

In the presence of

SIGNED ON _____ on behalf of

By _____ in the capacity

of _____

In the presence of

Help Page to Web load the documents in E-Tender Portal
For Cover Wise Uploading The Tender Documents

AFTER LOGGING IN TO THE BIDDER'S LOGIN

COVER WISE TO BE UPLOADED DOCUMENTS

COVER - 1

Cover No	Cover Type	Document Type	Description	Remarks
1	Fee	.pdf	Scanned Copy of Bid Security in the form of DD/BG/Exemption Certificate (MSME/NSIC)	EMD Amount specified in the Tender Document

COVER - 2

2	PreQual	.pdf	Declaration by the firm that it has never been black-listed	Self declaration by the firm duly signed & stamped
		.pdf	Profile of each Bidder and past experience in supply of the material	Previous supplies to the Govt. Institutions / Govt. Organisations.
		.pdf	True copy of Permanent Account Number	Scanned copy of PAN CARD of the firm
		.pdf	Details of Goods and Service Tax (GSTIN) along with a copy of certificate	GSTIN Registration certificate
		.pdf	Manufacturers authorization certificate	The form available in Part – 4 Section IX to be filled in by the Manufacturer/ OEM in the Manufacturer / OEM letter head with the Signatory name, Designation, Phone Number,
		.pdf	Checklist for Bid/Tender Submission	Duly filled and signed and stamped Checklist for Bid / Tender Submission available in the page no.3
		.pdf	Copy of the last three years audited balance sheet of your firm	Audited Balance sheet of the firm for the last three years

COVER – 3

Cover No	Cover Type	Document Type	Description	Remarks
3	Technical	.pdf	Tender Forms (Techno Commercial Un-Priced Bid and Tender Acceptance Letter)	Techno commercial Un-priced bid and duly filled and signed Tender Acceptance letter available in Part – 4 Section IX
		.pdf	Scanned Copy of Completion Schedules	Previous supplies and installation along with completion certificate
		.pdf	Technical Bid (brochures /pamphlets/data sheet)	Brochure / Pamphlet of the quoted Make & Models along with the specifications
		.pdf	Scanned Copy of written confirmation authorizing the signatory of the Bid to commit the Bidder	Authorising the signatory of the bid to commit the bidder in (written confirmation)
		.xls	Technical Bid	Duly filled-in Technical Excel file in 97-2003 format
		.pdf	Technical Bid	Duly filled-in and signed Technical bid in PDF

COVER - 4

4	Finance	.pdf	Scanned Copy of Tender form (Priced Bid)	Duly filled and signed Tender Form (Price Bid) available in Part – 4 Section IX
		.xls	BOQ	Duly filled in Price Bid Excel file in 97-2003 format
		.pdf	Scanned copy of item wise breakup of price bid	Item wise breakup of price bid in PDF (duly signed)