

INDIAN INSTITUTE OF MANAGEMENT VISAKHAPATNAM

Andhra Bank School of Business Building, Andhra University Campus,
Visakhapatnam – 530 003, Andhra Pradesh, INDIA.

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06 January 2023

Ref: Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01

Tender for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses

Indian Institute of Management Visakhapatnam, having its office at Andhra Bank School of Business Building, Andhra University Campus, Visakhapatnam – 530 003, invites tenders for hiring of Information Technology Facility Management Services (ITFMS) as per the details given in section Requirements of IIM Visakhapatnam based on the eligibility criteria and general terms and conditions mentioned in this document.

• **TENDER DETAILS**

Sl. No.	Item Name	Description
1.	Service	Engagement of agency for providing IT Facility Management Services
2.	Tender Ref No. and Date	IIMV/Admin/IT/Tender/ITFMS/2022-23/001 dated 06.01.2023
3.	Tender Fee	Nil
4.	Earnest Deposit Money (EMD)	Rs. 2,73,600 (Rupees two lakh twenty seventy three thousand six hundred only) (DD/Pay Order to be drawn, on any nationalized bank in favour of “Indian Institute of Management Visakhapatnam” and payable at Visakhapatnam) EMD exempted for MSME/NSIC registered agencies
5.	Contract Period	Three years from 1 st April 2023
6.	Date & Time of Online Publication/ Download of Tender	09.01.2023
7.	Pre-Bid Meeting at IIMVisakhapatnam Permanent Campus (Virtual or Physical)	13.01.2023

8.	Closing Date & Time for submission of bids in e-procurement portal (CPPP)	30.01.2023 03:00 PM
9.	Opening of Technical Bids	31.01.2023 03:00 PM
10.	Opening of Financial Bids	Will be notified later

*These are the tentative timelines. These timelines may change if required. If the last date of opening of the tender coincides with a holiday, then the next working day shall be the receiving/opening date. Any corrigendum or amendments will be posted on the Institute's website and <https://eprocure.gov.in/eprocure/app> only and the Bidders are advised to keep visiting the Institute's website regularly for updates/changes.

• **ABOUT IIMV'S IT INFRASTRUCTURE**

Indian Institute of Management Visakhapatnam (IIMV), is an Institute of National Importance under the Indian Institutes of Management Act, 2017. Currently, the main campus of IIM Visakhapatnam is located in a transit building in the premises of Andhra University Campus at Andhra Bank School of Business Building, Beside AU Central Canteen, Visakhapatnam 530 003, Andhra Pradesh. The permanent campus is at Gambheeram, Anandapuram Mandal.

- Both the campuses are Wi-Fi enabled
- Seven 100-seater Lecture Theatres (New Campus)
- Eight 50-seater Lecture Theatres (New Campus)
- Two 42-seater Lecture Theatres (New Campus)
- Two 72-seater Lecture Theatres (New Campus)
- One 100-seater Recording Studio (New Campus)
- One 50-seater Recording Studio (New Campus)
- One Recording Studio (New Campus)
- Twenty Meeting Rooms including Boardroom (New Campus)
- Three 70-seater lecture theatres (Old Campus)
- Three 30-seater mini lecture theatres (Old Campus)
- Video conferencing enabled classrooms (One LT and one MLT)
- Student Hostels (10)
- Married Studio Apartments (2)
- Admin Building, Guest House, Auditorium, Incubation Centre and Sports Building (New Campus)
- Well-equipped Library with Print and electronic knowledge resources
- RF ID Card Readers for student's attendance

- Session recording facility with an option to integrate with Microsoft Stream
- 100 Mbps Internet link from TATA and 100 Mbps Internet Link from PGCIL (Transit Campus)
- 300 MBPS internet link from BSNL, 400 Mbps Internet link from Jio, 100 MBPS internet link from NKN, 100 Mbps Broadband Link from Excel Media (Permanent Campus) and 100 Mbps Point to Point Link from Transit Campus to Permanent Campus.
- Base operating system for servers: Windows Hypervisor (Microsoft)
- Office365 email
- Office software and academic software
- IP based CCTV Camera Solution
- Firewall (HA) and Array Link Load Balancer at Transit Campus.
- Firewalls and Link Load Balancers at Permanent Campus (HA)
- IPEPABX

(List of assets are attached Appendix-1)

Current User base (Approximately).

- 800 students
- 250 staff
- Others: Outsourced staff, guests

The institute may increase or decrease the user base / devices requirement depending upon the changes in the number of sections, class schedules, faculty and staff etc.

IIMV REQUIREMENTS AND SCOPE OF WORK

This section describes, but does not limit itself to, the services required by IIMV for its IT Facility Management. The bidder needs to consider and envisage all services that would be required in the maintenance of IT infrastructure and facilities management. Hence, bidders are advised to do a thorough assessment of these requirements by planning a pre-bid visit to IIMV campus and participate in the pre-bid meeting.

The technical and the financial bid should be based on assessment of IIMV's need in the following areas that may be assessed through the pre-bid engagements:

- IT Support Services for end user infrastructure (faculty, staff, students and guests)
- Technical support (user level): which includes and not limited to internet,

intranet, tele-conferencing, Video conferencing and web casting with subscribed online and offline services and applications availed by IIMV.

- Anti-virus management, end point protection server end protection and Patch management
 - Email management
 - Network Support (Network LAN/Wi-Fi/WAN Management)
 - Server Management and Support
 - IT Helpdesk services
 - Storage, Backup, restore and DR solution for critical applications
 - Managed services for Data Centre, Proposed DR solution, Network and mailing solutions.
 - Vendor management
 - Asset Management
 - Provide support for Website maintenance and administration
 - Applications maintenance and support
 - Payment Gateway support
 - Classroom management
 - CCTV Data Management
 - End user experience monitoring and management with SLA, CSAT and CSI
 - Desktop Automation services (DAS) with enterprise SSO (Single sign on) and password management
 - Tools and process required for managed services
 - Configuration and maintenance of the Firewall and Link Load Balancer
 - Managing Soft Video Conference
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- The FMS Provider is expected to develop a service delivery framework for executing IT FM Services for IIMV based on the requirements. The engineers being deployed by the bidder for this purpose should be employees of the bidder organization and not from any other agency.
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- IT system support tasks are vital for maintaining the IT infrastructure at the Institute. Hence IIMV intends to have IT Facility Management Service (FMS) with 12x7 (12 hours: 7 days a week) user support on a rotational basis. The Institute is looking to outsource complete IT support services to a single service provider to provide overall IT support services.
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- The Bidder is expected to undertake the facility management of the entire IT infrastructure of IIMV campus. The objective is to ensure uninterrupted operations, efficient and effective utilization of IT resources. As part of the

facility management, the Bidder shall provide an onsite (at IIMV) dedicated team of professionally qualified/trained workforce who will be exclusively responsible for day to day on-site support activities. They will be reporting to the IT department of IIMV. The Bidder has to ensure uninterrupted availability of the resources.

- The Bidder should be a well-qualified total solution provider to implement the defined scope of work and other initiatives successfully. The bidder should be capable of providing totally integrated solutions as part of this RFP and also should have experience in managing such integrated IT environments.
- The bidder shall be responsible for Upgrade, Installation, Implementation, Migration, Integration and the Support of IT Infrastructure Solutions i.e. Servers, Storage, Tape Library, and Disk based appliance, Network Switch, Firewall, Server Load Balancer, Application, Delivery Controller, Racks, KVM Switch etc. and manage the new and existing infrastructure during the contract.
- The bidders desirous of taking up the project for supply of above product and service for IIM Visakhapatnam are invited to submit their technical and commercial proposal in response to this RFP. The criteria and the actual process of evaluation of the responses to this RFP and subsequent selection of the successful bidder will be entirely at the Institute's discretion. This RFP seeks proposal from Bidders who have the necessary experience, capability & expertise to provide IIM Visakhapatnam with required IT Manage support services adhering to Institute's requirement outlined in this RFP.
- This RFP is not an offer by IIM Visakhapatnam, but an invitation to receive responses from the bidders.
- No contractual obligation whatsoever shall arise from the RFP process unless and until a formal contract is signed and executed by duly authorized official(s) of IIM Visakhapatnam with a selected Bidder.
- All the above services shall be offered as a service model for a period of three years. Any software / hardware if supplied by the vendor during the period of this contract shall be transferred to IIMV at the end of the contract period. A higher level of confidentiality is to be maintained and Data is necessarily given back to IIMV.

Note: In future, the Institute may purchase / add additional assets (Servers, Network

Equipment, AV Equipment, laptops, desktops, printers, servers etc.) as per the requirement of the users, which will automatically come under the scope of this FMS contract.

- **IT/AV SUPPORT SERVICES**

- Complete IT/AV support services to users including hardware software and operational support. The support may consist of all types of IT/AV support, hardware/ software, maintenance of the desktops/ laptops/printers/scanners/servers, institute's network and any other IT/AV items/assets of the Institute.
- IT/AV support shall also be provided to all the employees, students, and visitors, etc. The hardware support for items such as Desktop/Laptop/printer are restricted only to inspection and diagnosis of the hardware problem and reporting to the corresponding vendor to get it repaired.
- In general, the following services are expected from the service provider on IT/AV support:
 - Provide maintenance and support to all IT/AV resources (including installation configuration / trouble shooting of hardware and software) or any operational /system related problems at the user end.
 - Coordinate with respective vendor/ OEM to resolve the hardware and software related problems.
 - Ensure smooth conduct of classes, meetings, conferences, events etc by providing seamless IT and AV support.
 - Assist users in backup/ recovery in case of system crash /database failure.
 - IT/AV support for different activities like Management Development Programs/Placement Activities / Presentations / Video conferencing/ workshop/conference/ classrooms/ any other events as and when required.
 - Daily checking of all Classrooms and Meeting rooms and prepare daily checklist.
 - Patch management.
 - Initiation of classes, checking of all related equipment before the beginning of each session.
 - Handle and trouble shoot the equipment in coordination with the equipment service provider
 - Log, Attend and update the tickets
 - Handle and trouble shoot EUC (End-User Client) hardware and applications

and provide required support

- Provide support in IT related issues and work in coordination with IT engineer
 - Installation of academic, research software on institute's assets and troubleshooting.
 - Technical support on regular basis will be required for various events organized by students, various Programs in Transit/Permanent campus, other Conference, Seminars, foundation day, convocation and any other culture event etc.
 - Complete audio-visual systems at the lecture halls / Auditoriums should be checked a day before the events/ Conferences etc. Setup the sound system for the cultural events planned at campus.
 - Trouble shooting technical problems occurred in Audio Visual system during the events, and resolve or provide alternate solutions.
 - Audio Visual related support needs to be extended within short notice from the users. Co-ordinate with the other institute technical team to perform the appropriate test runs for both video conference and audio conference meeting in advance to ensure that the Video and audio quality along with the data sharing is fine, both at near end as well as far end.
 - Setting up other video calls such as video-conferencing, audio conferencing Skype, zoom, WebEx, Teams if requested by the users.
 - Involvement in the process of new or re-installation and commissioning of the Audio Visual System.
 - Assets and software licenses management
- **NETWORK SUPPORT**

Network support Services (including Active and Passive component support) would be comprehensive in nature. Bidder is supposed to provide the following services:

- Monitoring:
 - Monitor availability of infrastructure (Links, Network devices)
 - Monitor and manage all the alerts and events based on the criticality
 - Log tickets for the alerts as per the severity
 - Assign the tickets to the respective stakeholders
 - Follow up with the team till the ticket is closed
 - Ensure all the tickets are closed within SLA
 - Share the daily, weekly, monthly tickets reports
- Network:

- Support for all layer switching and Routing, Wireless controllers
- Wi-Fi Support
- Creating different service delivery nodes
- Designing solutions based on workload and application criticality
- Network Firewall management
- Implement network policies
- Incident management, change management and problem management for Network:
 - To restore service, minimizes service disruptions, and responds to IIMV needs as per the agreed SLA
 - Follow the incident Management Procedure for resolving the incident
 - Find out the root cause for S1 incidents for the devices
 - Perform reinstallation of the Setup, arising due to incidents of Crashes or problems where a reinstallation is required.
 - Trends on the incidents/problems
 - Recommend on the possible solution/workaround to address the probable causes of failure.
- Patch Management:
 - Update latest Patches (subject to OEM license availability and concurrence given by the customer)
 - All patches to be tested on test set up prior to production.
 - Tracking of Patch / IOS versions
 - Coordinate with vendor to update firmware / hardware patches
- Vendor Coordination:
 - Update latest Patches (subject to OEM license availability and concurrence given by the customer)
 - All patches to be tested on test set up prior to production.
 - Tracking of Patch / IOS versions
 - Coordinate with vendor to update firmware / hardware patches
- Voice Support:
 - Manage and maintain the IP EPABX
 - Manage and maintain the PRI and SIP Lines
 - Manage and Maintain Call Management for system
 - Maintain end user devices
 - Coordinate with service providers
- Detailed Scope of Work:
 - Support of IIMV Network Infrastructure which includes all Active and Passive components (Wi-Fi and Wired) at both the campuses. It also

includes installation/configuration/testing/trouble shooting of all the active components as well as passive components.

- Warranty of IIMV infrastructure which are under OEM support.
- Identifying EOL and EOS devices and proposing the new devices to replace them.
- Assessing the existing wired, wireless, voice infrastructure and capturing the existing infrastructure details.
- Identifying the gaps and proposing recommendations for the identified gaps.
- Assessing the existing topology and packet flow and proposing a topology with redundant at all levels to meet expected SLA.
- Handling the technical, hardware part of Network infrastructure.
- Managing and maintaining the MDM for endpoint devices (Intune)
- Maintaining the Core and Distribution level redundancy during failover cases.
- Managing and maintaining the VC end points.
- Maintaining the inventory details of all the Network Infra being used in IIMV along with IP address, MAC address, Serial number, Location of the devices and software version.
- Submission of SOP documents for commission/ decommission of switches, routers, firewalls, security servers, wireless LAN controllers, and access points.
- Submission of complete Run book and updating the sheet with respect to changes.
- 12/7 Managing and sustaining the all-network services with resident/In house engineers. Network Infrastructure issues like Switch, WLC fail, and Router fail. Client level issues like packet flow, disconnections, and Interim disconnections.
- Preparing the dash boards on Monthly basis.
- Tracking of the high priority issues on a daily basis.
- Performing site assessment on half yearly basis, to identify network level issues.
- Taking of Necessary actions to mitigate the network issues.
- Maintenance of firmware/system software of all the network switches /devices etc. during the contract period is part of the scope of this contract. If any parts are found to be defective, malfunctioning, or non-functional, efforts may be made to repair it in coordination with OEM /

service provider.

- Maintenance of all passive network connections from data center/ server room/edge switches or any other location through switches, connectors and including all supporting passive components. The work under this item also includes network configuration and its maintenance at the node level. The FMS Provider has to replace/reinstall all the defective, malfunctions / non-functional cable with standard quality in coordination with the service provider.
- Liaise with Internet Service Provider (ISP) for resolution of problems related to bandwidth or downtime.
- Maintain VPN for authorized users.
- Configuration and maintenance of the Firewall and Link load balancer.
- Support for all layer switching and Routing, Wireless controllers

- **SERVER SUPPORT**

The Statement of work involves Team coordination, Escalation Management, Issue coordination, Monitoring Management, SLA Management, Change activity Management, Audit Process Management and Shift Management on a 12x7 basis. Escalation of errors or declinations should be as per the escalation matrix. All activities must be executed in a systematic and process-oriented manner.

- INC/request (SRQ/CRQ) acknowledgement
- All INC/SRQ/CRQ request status can be updated on a regular basis.
- Monitor web alerts and acknowledge the status to respective teams
- Escalate to next levels for the running issues without any Service or business impact.
- Managing all the VM's/instances hosted out of public clouds etc Azure/AWS
- Monitor availability of Azure/AWS and on prem infra at both campuses Instances for (Disk, CPU, RAM and other system performance metrics).
- Server ports implementation Process
- Application/Listener ports implementation process
- Instances second level monitoring by L2 Engineers through probe tool
- SSL certificate CSR generation Process
- SSL Certificate renewal and verification process

- Application migration implementation and documentation Process.
- Server backup solution / DR required: Solution, installation, configuration, maintenance, regular backup scheduling, backup and drill at regular intervals.
- Installation and maintenance of Computational, email, web, storage and backup servers as and when required.
- Managing Licenses of proprietary software and coordinating with respective vendors regarding issues.
- Setting up and maintenance of LDAP database.
- Install and manage the Database Instances.
- Manage DNS mapping & binding on all the Servers in Azure/AWS and on prem infra at both campuses
- CCTV Cameras, NVR and Data management; Student and Staff Attendance Management
- Ensure smooth running of servers and their availability
- Implementing, maintaining and updating Active Directory (AD) Services and AD Domain Services
- Email ids creation and its access rights
- Microsoft Office 365 / any other software that the Institute may procure later
- Operating Systems (Linux, Windows, Hyper-V etc.)
- Maintaining website and 24x7 availability
- Internet and intranet related software applications such as Moodle (LMS), Tally (accounts), teaching aid, research software (SPSS, R etc.)
- Antivirus updation and upgradation
- Availability of servers and performance monitoring by the tool
- capacity planning – quarterly review (and /or need based) of updation and upgradation.
- Generic Server Administration

- Virtual Machines Resources Management
- Cloud Servers Resources Management
- Performance Fine Tuning
- Disk Space Clean Up
- Task scheduling
- DNS/ DHCP Management
- UAM (User Account Management)
- Active Directory/ Group Policy Management
- Server Hardening activity must be carried out every month on a regular basis and security Patches are updated on a regular basis.
- Storage management process to optimize the use of storage devices, maintain data consistency and to protect the integrity of stored data for any media on which it resides.
- Data copy between Different storages
- Folder structure creation and permissions
- Storage Threshold Management
- Database Management for a successful database environment by detecting and performing necessary activities to keep the data.
- Database Software installation and Maintenance
- Data Extraction, Transformation, and Loading
- Database Backup and Recovery
- On Premise Data Centre with Critical Infra (Physical & Virtual)
- Cloud (AWS) – Virtual
- Backup and Restore Management
- Periodic Backup Configuration
- Restoration from recent successful backups
- Backup/restoration management for cloud VM's hosted in Azure/AWS.

- As part of Enterprise Messaging offering FMS Provider team takes care of complete Management of staff/Faculty and students' mailboxes for the business.
- Server Management
- O365 Tenancy Management
- G-Suite Management
- Accounts creation /Modification/Deletion
- Groups and Distribution List Management
- Active Directory Integration.
- Create CRQ document for the change related request.
- The CRQ Document is reviewed by Level 2 Engineers and all level of changes can be made by Level 2 Engineers, based on the Priority level of the Request occurred in Change Management
- Testing is carried out on implementations.
- Interact with vendor through telephonic conversation on the above scenario.
- All Engineers to ensure that the internal mail communication process has been handled in an appropriate manner.
- If the issue demands Vendor level negotiation, then engineer is supposed to carry out the vendor level negotiation activities.
- An analysis report justifying the troubleshooting steps done by the Engineer is submitted to the infra team & Incident Reporter.
- Analyzing end log messages during the crisis must be shared with the internal managers alone.
- If the client or vendor requires end logs, it may be shared after getting confirmation from the respective manager.
- Once the issue is resolved the Engineer will inform all internal managers & the incident reporter.
- Preparing the Activity checklist for their streams as well clear understanding the activity with Specific downtime details.
- Need to cover the report of the Capacity planning based on the Server Levels

as Space, Memory, and CPU. To know the status of current availability and incremental Peak value of the Servers.

- The Level 2 Engineers needs to assign a work task for L1 Engineers with proper information received from the Functional manager.
- Data Backup Schedules. Following is the backup model which will be followed to safeguard the data.

Backup Schedule:

Backup Types	Production			Dev/QA		
	Daily	Weekly	Monthly	Daily	Weekly	Monthly
File Level Backup	Incremental	NA	Full	NA	NA	Full
DB Level Backup	Differential	Full	Full	Differential	Full	Full
System State/Application Level Backup	Incremental	Full	Full	NA	Incremental	Full
VM Level Backup	NA	NA	Full	NA	NA	Full
Retention Period	1Week	2Weeks	1Month	1Week	2Weeks	2Weeks

- **HELP DESK SERVICES**

- The FMS service provider has to maintain onsite help desk service 12x7 (12 hours: 7 days a week) in computer center for User Support at IIMV campus. Help Desk has to maintain a log of all user calls through a tool and generate a ticket number, assign severity and respond to the call as per SLAs. (as per defined SLAs under section “SLA Matrix” in this document).
- Monitor all user calls, track each one of them for timely resolution, escalate calls to appropriate vendor, if required and coordinate with them for closure of the

ticket. Generate MIS reports and share it with IT department of IIMV.

- The Institute will provide two desktops and two laptops for the helpdesk services. The FMS Provider is required to equip their engineers with any other devices that are required for smooth operations. IIMV will provide an extension telephone connection for the help desk.
- FMS Provider shall arrange for its transport for carrying out the maintenance and for movement of material required and other support required by them like tools, equipment documents/drawing, cleaning agents, etc. Only required electrical power/electricity would be provided by the institute for carrying out maintenance activity.
- All types of repairs/maintenance shall be carried out within the premises of IIMV. The Bidder will not be allowed to take the machine/spare parts out for repair without prior approval of IT Department.
- The IIMV IT Dept shall approve any new spare parts/components to be replaced for the satisfactory running of the machines/instruments.
- In the case of any intermediate, a suspicious or unidentified problem related to fiber cable, cat5/6 cable, and any active device, the FMS Provider shall bring all required testing equipment at his cost to identify the problem and accordingly fix the problem.
- The Bidder must provide a service escalation chart with contact details.
- Service Window:
12x7 (12 hours: 7 days a week): 8 AM to 8 PM. There could be a need for 12 hours a day as and when required. Leave will be granted for additional service provided.

• **MANPOWER REQUIREMENT**

Manpower Type	Shift Timings (Monday to Friday)/Number of Manpower					
	8 AM to 4 PM		9 AM to 5 PM		12 AM to 8PM	
	Temporary Campus	Permanent Campus	Temporary Campus	Permanent Campus	Temporary Campus	Permanent Campus
AV Technician (3)	1	-	-	1	-	1
AV cum IT Engineer (3)	-	1	-	-	1	1
Network Administrator (1)	-	-	-	1	-	-
Network Engineers (2)	-	1	-	-	-	1
Server Administrator (1)	-	-	-	1	-	-

- The FMS Provider should deploy the manpower as mentioned above at both the campuses. The Institute expects that the above minimum manpower and timings have to be followed by the Bidder. Shift timings on Saturday and Sunday depend on Weekend learning program schedules, events and week offs of the engineers/technicians at both the campuses. IIMV reserves rights to implement/modify/adjust the above-mentioned shift system. Week off will be provided to each person on Sunday or Saturday or Friday based on the class schedules/workloads. The requirement of manpower may vary according to the need and may be reviewed/reduced/enhanced as and when required. The FMS Provider is expected to deploy or withdraw manpower as and when required for managing the workload of the Institute's activities based on requirements from time to time. The charges are applicable as per the manpower category mentioned in the financial bid. Cost will be calculated on pro-rata basis. One month notice will be provided to deploy an additional manpower or to withdraw the manpower.
- All the senior engineers, especially Network and Server engineers should be available to provide remote support beyond the shift timings (as well as in person based on the need). Each shift's support personnel should hand over the duty to the next shift staff before leaving the Institute and maintain shift update register. Bidder should ensure that all the pending/ongoing support calls are properly understood by the next shift support staff. The shift timings may be changed/adjusted as per the IIMV requirements with the mutual understanding of both the parties (IIMV and FMS Provider).
- The FMS Provider is expected to provide expert services as and when required based on requirements from time to time. Engineers/Technicians should also attend shifts in the nights if required based on the institute requirements. Compensatory leave will be provided for additional service provided. In the case of pending/high workload, the FMS Provider will depute additional staff to clear the backlog to maintain the uptime of the IT infrastructure of the institute. FMS provider should ensure a high quality of workmanship and quality services.
- Engineers/Technicians are expected to work on other days / holidays based on the requirement with prior notification. Holidays will be based on IIMV general holidays only, not the Bidder company holidays. However, deployed resources are eligible to take minimum leave as per the leave policy of the Bidder. Any leave of more than 2 days by any resource should be planned in advance and a temporary replacement should be provided with sufficient training beforehand

and ensure that the required business SLAs are not affected. The attendance register will be maintained at IIMV site. Resources deployed shall be governed by HR policies of FMS Service provider. The leave policy of the company should be clearly mentioned in the final agreement that IIMV will enter into with the successful bidder.

- As part of third-party vendor management, the FMS Provider has to interface with existing service providers / OEMs for obtaining support for equipment covered under AMC or warranty. FMS Provider should ensure the proper functioning of network and IT support to all users and shall be responsible for complete IT support, and maintenance of the campus network infrastructure under the scope of this contract. Bidder shall also be responsible for timely resolving of the complaints and all types of IT support.
- All the personnel deputed at IIMV will be interviewed by IT Dept for suitability. Only those personnel found suitable in the interview will be considered for deployment at IIMV. Deputed personnel cannot be changed without prior approval from IT Dept. Similarly, if the performance of any technical service personnel is not found satisfactory, IIMV shall have the option to ask the FMS service provider to change the concerned personnel.
- The Institute is currently operating from both transit campus in Andhra University campus and permanent campus in Gambheeram village, Anandapuram Mandal, Andhra Pradesh. The FMS provider should be required to operate from both the campuses based on the requirements and should be required to travel between these two campuses for discharge of duties assigned, as frequently as needed. Network and Server Administrators should be deployed at Permanent Campus. However, they should also administrate the respective activities of Transit Campus remotely. If required, they need to visit the Transit Campus. All the engineers/technicians should be able to work in all shifts irrespective of the location. (Permanent Campus and Transit Campus)
- **MINIMUM QUALIFICATION AND EXPERIENCE OF DEPUTED PERSONNEL**
 - **Audio/Video Technicians (Three persons):**
 - Any Diploma / ITI or Equivalent
 - Minimum two years of experience in AV domain
 - **IT Cum Audio/Video - Engineers (Three persons):**

- B. Tech or Diploma in Electronics / IT / computers
- Minimum two years of experience in AV as well as in IT domain
- Good communication skills in English, Hindi and Telugu
- **Senior Network Engineer (Administrator) (One Person):**
 - BTech/BE in Electronics / IT / computers
 - CCNA / CCNP certification
 - Minimum 3-4 years of experience
 - Good communication skills in English, Hindi and Telugu
- **Network Engineer (Two Persons):**
 - BTech/BE in Electronics / IT / computers or Diploma in Electronics
 - CCNA certification
 - Minimum 2-3 years of experience
 - Good communication skills in English, Hindi and Telugu
- **Server Administrator (Team Lead) (One Person):**
 - BTech/BE in Electronics / IT / computers
 - Professional certification like MCSE / MCP
 - Knowledge in Linux environment
 - Minimum 3-4 years of experience
 - Good communication skills in English, Hindi and Telugu

Trainee/Fresher Engineers will not be accepted.

All the engineers will have to be given hands-on training by the service provider in all the areas of IT/AV at basic level so that any contingency can be attended to by any engineer.

- **REPORTS FOR PERFORMANCE MONITORING OF THE SERVICE LEVELS**

The FMS Provider shall furnish the following reports to IT Dept. of IIMV as per the frequency below:

- Daily Call Analysis Report (Incidents and Service requests)
- Aging ticket report

- Monthly - Call Analysis Report (Shift wise)
- Call Analysis Report (Total User Support)
- Monthly IT Assets Inventory Report after PM (Preventive Maintenance)
- SLA Compliance report
- IMAC Reports
- Any other MIS report required by IT department from time to time

The FMS service provider must depute Server Administrator as the SPOC who will report to IT department of IIMV for day-to-day activities and submit all the required reports and coordinate with IT department to ensure seamless and efficient IT support functions.

The Bidder shall provide extra manpower to support need-based task/work as and when required on his own cost. The Bidder shall ensure that any specific work related to Support/Maintenance assigned by Institute is carried out diligently and well in time.

- **SLA MATRIX**

Contractual SLA	Definition*	Agreed		
		Response (in Mins)	Resolution (In Hrs.)	Goal**
Severity 1	A problem which affects customer's business objective / critical Infrastructure like problem in Servers, Network Backbone Infrastructure. This priority is also applicable for pre-defined Very Important Users.	15	2	99%
Severity 2	A problem, which affects the department for the entire operations or partial failure affecting 10% users etc.	15	4	98%

Severity 3	Problem in individual user Desktops, Hardware or Office Application clients etc.	30	24	97%
Severity 4	Any other scheduled activities such as installation / shifting of desktops, change in configuration, profile creation, IMAC process etc.	120	48	99%

* Refer to the table below for detailed SLA description

**The goal percentage will be reviewed in a positive direction on an annual basis.

Severity Level (Response/Resolution/SLA)	Description
S1 (15 Mins / 2 Hrs / 99%)	Service outage resulting from failure of application, database, web servers, network devices within the configured environment causing interruption of services to all IIMV users in a Data Centre environment.
S2 (15 Mins / 4 Hrs / 98%)	Any server, storage, network, database, application incident within a Data Centre managed environment
	Any failure of one of the multiple application, database, web servers or network devices where such failures does not result in a service outage
	Failure of any standalone server or network element in scope impacting production
	Any incident of backup activity or Job failure on servers running business applications, web servers, email, DNS, and databases etc.
	Disruption due to virus attack
	Any partial failure in server, network or managed applications infrastructure that results in outage for more than 10% users
S3 (30 Mins / 24 Hrs / 97%)	User ID and access related issues
	Disk quota related issues
	Any incident of backup activity or Job failure on servers on which business critical data or service is not residing
	Antivirus update failure
	Any failure associated with failure or individual PCs and peripherals

S3 (30 Mins / 24 Hrs / 97%)	User ID and access related issues
	Disk quota related issues
	Any incident of backup activity or Job failure on servers on which business critical data or service is not residing
	Antivirus update failure
	Any failure associated with failure or individual PCs and peripherals
	Any failure in server, network or managed application infrastructure that results in service outage for up to 5% users
S4 (120 Mins / 48 Hrs / 99%)	Tested patch upgrade
	IMAC (Hardware/Software) changes User ID or mailbox creation and deletion Disc quota changes subject to storage space being available
	Data backup or restore requests
	Any planned activity on the end user equipment or in Data Centre
	Note: Patch upgrade may have a dependency upon successful test of patches in UAT or test environment and/or Availability of downtime for carrying out the activities. The ticket for such activities shall be raised in discussions with the customer.
Problem Management	2% average call reduction over a period of one year (The average calls shall be calculated based on the number of calls per asset per year)
Change Management	98% successful changes over total number of changes requested in the measurement period
	100% changes followed the change management cycle
Release Management	100% successful patch rollouts/releases within the agreed project timelines
Configuration Management	100% Accuracy in Asset Management databases with inter dependency chart (audited every six months)
	All IMACs are recorded and reported every month
Operations Management	Daily reports on time
	Monthly performance report before 7 th day of every month.
	Critical outage notification and periodic update to Customer's key stakeholders

Penalty on delay in Resolution for Severity 1	Rs 5,000/- per incident
Penalty on delay in Resolution for Severity 2	Rs 3,000/- per incident

Penalty on delay in Resolution for Severity 3	Rs 1,500/- per incident
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The above penalty will be applied at the time of Quarterly payment.

User Rating - It can be reviewed on an annual basis

Scale

- 1- Unsatisfactory
- 2- Satisfactory
- 3- Extremely satisfactory

Rating commitment

- The Bidder should conduct the quarterly rating survey
- An average Quarterly user rating between 1.90 to 2.40 is required
- Any reduction of 0.10 in the user rating attracts a penalty of 1% of the respective Quarterly contract value.

• **BID SUBMISSION**

Bidders are required to access the tender document on the website <https://eprocure.gov.in/eprocure/app> and go through all the conditions and other details pertaining to the tender like Special instruction etc. Bidder can download the tender document from IIM Visakhapatnam website also. Bidders are required to fill all relevant information, upload the relevant documents called for in the tender and submit the bid online in the portal <https://eprocure.gov.in/eprocure/app> on or before closing date time mentioned in Notice.

Corrigendum, amendments etc., to this tender, if any, shall be issued / available on IIMV website and <https://eprocure.gov.in/eprocure/app> only. Prospective Bidders are requested to visit the website regularly for any updates in this regard. No separate communication shall be sent thru e-mail/newspaper etc.

Bidders are advised to go through the 'Instruction for Online Bid Submissions' provided along with NIT. Detailed procedure for bidding is available in the website (<https://eprocure.gov.in/eprocure/app>) home page in Bidder Manual Kit.

Bidders are hereby advised to submit their bids online well before the closing hours as any delay in submission of tenders due to slow internet accessibility or for any other reason will not be accepted by the system.

Cover1: Technical Bid – The following documents should be submitted:

- Bid Submission Letter (Annexure-1)
- Technical Bid along with all documents mentioned therein (Annexure-2)
- Bid Security Declaration Form (Annexure-3)
- Declaration of non-blacklisting of the firm (Annexure-4)
- Firm Registration Certificate with validity as on closing date of submission of Bids
- Income Tax Returns for the Financial Years 2021-22, 2020-21, and 2019-20
- Copy of PAN Card
- Copy of GST Registration
- Tender document – All pages should be signed by the authorized signatory and stamped with the seal of the Bidder.

Note:

- Documents at S.No. a) to d) should be in original, and e) to i) should be relevant documents or their photocopies, duly attested by the authorized signatory and stamped.
- Also, it is directed the bidders to also submit the advanced copies of the documents with self-attestation on or before bid closing date. All the above documents uploaded in 'Technical Bid' along with original DDs for EMD shall be arranged in same order, serially numbered, bound (spiral/hard) and placed in one envelope cover and sealed properly. This cover shall be labelled "Technical Bid for Tender No: IIMV/Admin/IT/Tender/ITFMS/2022-23/001, dated 06.01.2023". Name and address of the bidder shall be clearly mentioned on this cover. This envelope cover shall be sent thru post/courier or deposited in the tender box placed in the office of the Senior Administrative Officer - Administration, IIM Visakhapatnam, Andhra Bank School of Business Building, Andhra University Campus, Visakhapatnam – 530003 on or before the closing date and time for submission of tenders. Name, Address, Mail ID and Contact No.s of the Bidder should also be provided on this cover.
- Bids received after the closing date and time, for any reason thereof, will be rejected. IIM Visakhapatnam is not responsible for any delay in submission of bids.
- Bids submitted without above documents are liable for rejection.
- Financial Bid information SHOULD NOT be mentioned anywhere in the Technical Bid. Any breach will result in the rejection of the Bid.

Financial Bid:

The bidder shall Upload the 'Financial Bid' in MS Excel format as per Annexure-5 (read the instructions thereon clearly before filling the bid). Bidders are not required to submit the Financial Bid physically.

- **PROCEDURE FOR OPENING AND EVALUATION OF TENDER BIDS (TECHNICAL AND FINANCIAL)**

- Technical Bids will be opened electronically on the date and time mentioned in the Notice Inviting Tender in IIM Visakhapatnam. One representative from the bidder's firm shall be allowed to represent during the opening of the technical bid at IIMV campus on production of authorization letter from the firm, as per the Annexure-6. A Committee duly constituted by the Competent Authority would evaluate the technical bids submitted by the bidders.
- The Technical Bids of the all the bidders shall be opened first to evaluate the Eligibility Criteria. Technical evaluation will be carried out for the bidders who meet the Eligibility Criteria. After completion of detailed evaluation of technical bids, the Committee shortlists the bidders.
- Cut-off Marks for Qualifying: Bidders securing a minimum of 60 marks in the Technical Evaluation only will be considered as 'Technically Qualified'. Financial Bids of only those Bidders who are technically qualified will be opened and evaluated further, as notified herein.
- All calculations shall be done on net out go per month i.e. including all taxes and levies at the quoted rates. The evaluation for the award of the Contract will be done under the Combined Quality Cum Cost Based System (CQCCBS). As per the evaluation criteria, 70% weightage will be given to technical score and 30% to the financial score. However, the Institute reserves the right to split the services/manpower category/order quantity between/among two or more technically successful bidders, by normalizing the bids.
- In case of a tie, the Bidder who scores higher marks in the Presentation [Technical Bid: Item-6] will be credited (notionally) with five more marks (subject to a ceiling of 25 marks) and evaluation carried out.

- **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

Registration:

- Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrolment” on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

Searching for tender documents:

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.

- Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

Preparation of bids

- Bidder should take into account any corrigendum published on the tender document before submitting their bids. All Corrigenda/Amendments to the tender document shall be published on IIMV Website and CPP Portal only. No separate communication to any party/bidder will be sent. The bidders are advised to keep visiting the Institute's website regularly for updates/changes. The bidder is required to read the tender documents in conjunction with the corrigendum, if any, issued by IIM Visakhapatnam. The bidder is not supposed to incorporate the amendment in the body of the tender document
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid and need not be uploaded again and again. This will

lead to a reduction in the time required for bid submission process.

Submission of bids:

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as “offline” to pay the EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit

encryption technology. Data storage encryption of sensitive fields is done. 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 opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

Assistance to Bidders

- Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
- **CONTRACT PERIOD**
 - The contract duration shall be for a period of three years from the start date of contract. IIMV reserves the right to extend the contract at its discretion for a further period of two or three years, at the same mutually agreed terms and conditions. However, the period of commercial evaluation is 3 years at this stage.
 - In the event of non-commencement or unsatisfactory performance of the work contract as per the timelines, the Institute reserves the right to cancel the contract agreement or to withhold the payment. In such eventuality, IIMV, further, reserves the right to get the work done from some other agencies and the cost of the work has to be borne by the Bidder.
 - In case of successful bidders, the existing contract with IIMV, if any, shall stand automatically terminated for the new contract to commence.

- Exit clause: The contract can be terminated by giving 90 days' notice by either party. However, IIMV shall be free to terminate the contract by giving notice for a lesser period, without any implications or liability of whatever nature, to IIMV.
- Mode of Issue of notice: Any notice sent by Speed post only by either party to the addresses recorded in the contract shall be deemed to have been properly served for any of the purposes mentioned herein.
- **TENDER FEE AND EARNEST MONEY DEPOSIT (EMD)**
 - Interested bidders are required to pay a refundable amount of Rs 2,73,600/- (Rupees Two Lakhs Seventy Three Thousand Six Hundred only) towards EMD and it should remain valid for a period of 90 days beyond the final tender validity period.
 - The tender should be accompanied by specified Earnest Money Deposit in the form of crossed demand draft/Bankers Cheque drawn in favour of 'Indian Institute of Management Visakhapatnam', payable at Visakhapatnam from any Nationalized Bank or Scheduled Bank. Cheques or any other forms of payment will not be accepted. The tender is liable for rejection, if it is not accompanied with the Earnest Money Deposit as specified in the Notice Inviting Tender.
 - DDs/Bankers cheques towards EMD along with all documents uploaded in 'Technical Bid' as Cover-1 shall be kept in a sealed envelope cover and labelled "Technical Bid for Tender No.: IIMV/Admin/IT/Tender/ITFMS/2022-23/001, dated 06.01.2023". This envelope cover shall be sent thru post/courier or deposited in the tender box placed in the office of the Senior Administrative Officer - Administration, IIM Visakhapatnam, Andhra Bank School of Business Building, Andhra University Campus, Visakhapatnam – 530003 on or before the closing date and time for submission of tenders. Bids received after the closing date and time, for any reason thereof, will be rejected.
 - Tenders submitted online without submitting the required EMD shall be liable for rejection. However as per applicable Government Notification the EMD shall be exempted for the agencies who furnishes the valid applicable National Small Industries Corporation (NSIC) / Micro Small Medium Enterprises (MSME) Certificate. Hence, the tenderers shall upload the scan copy of the relevant and valid NSIC/MSME Certificate if available in the website <https://eprocure.gov.in/eprocure/app> while submitting the bid.
 - Earnest Money Deposit, so paid will be refunded or returned as the case may be, to the unsuccessful tenderers within one month of completion of the tendering process. In the case of successful tenderer, the Earnest Money

Deposit will be retained as part of the initial Security Deposit and shall be refunded after submission of required Security Deposit in full. No interest will be payable on EMD/Security deposits.

- The amount of EMD is liable to be forfeited, if the tenderer withdraws from the tender process after submission of the bid or after the acceptance of the offer and fails to remit the Performance Security Deposit. The Agency who seeks exemption from the EMD as per above, if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document, will be suspended for the period of three years or as decided by the competent authority from being eligible to submit bids for tenders issued by IIMV.

- **EXECUTION OF AGREEMENT**

- The Bidders selected/empanelled will be communicated through a formal letter.
- The Bidders shall be required to execute a Contract (as per the format to be prescribed by the Institute) within one month of the date of issue of such communication. Failure to do so shall lead to disqualification of the Bidder.
- After selection, Bidders failing to deploy the manpower as required by the Institute, will lead to penal action, including cancellation of the Letter of Award and/or termination of the Contract.

- **PERFORMANCE SECURITY**

- The successful bidder will have to furnish performance security of 5% of the final Work Order value (before taxes) calculated for the entire contract period, i.e., three years, in the form of bank transfer or Demand Draft in favour of Indian Institute of Management Visakhapatnam, payable at Visakhapatnam within 10 days of award of contract.
- Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier.
- Performance Security will be forfeited if the firm fails to perform any of the terms or conditions of the contract, besides the firm may also be blacklisted.
- Performance Security will be refunded to supplier without any interest, whatsoever, after it duly performs and completes the contract in all respects.
- In case, the firm fails to provide the required services within specified delivery period, the same services will be obtained from open market and the difference of cost, if any, will be recovered from Performance Security or from pending bill(s) of the defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security.

- In case of non-receipt of Security Deposit within the stipulated time, EMD will be converted into Security Deposit and the balance amount will be recovered from the bill submitted for the payment.
- **TERMS AND CONDITIONS**
 - The vendor has to comply with all guidelines while providing the service.
 - Engineers /personnel should be conversant in Hindi apart from English.
 - The engineers/technicians of FMS service provider will be required to follow all security regulations enforced at IIMV.
 - The Bidder shall be responsible for any injury/accident or compensation to their service engineers/technicians during their stay inside IIMV premises.
 - The contractor shall comply with all the statutory and legal provisions as laid down under various Labour Laws in force from time to time at his own cost. In case of violation of any statutory provisions or any other applicable laws, IIM Visakhapatnam will not be held responsible.
 - The contractor shall provide full CV of the engineers/personnel along with their contact details within one week of the award of the contract or start date of the contract whichever is earlier.
 - In case of any dispute arising out of the terms and conditions of contract, the matter shall be referred to the Sole Arbitrator to be appointed by the Director, IIM Visakhapatnam as per the relevant Act and the award of the Sole Arbitrator will be binding on both the parties. The cost of such arbitration shall be shared by both the parties equally. Further, any legal dispute arising shall be settled in the court of competent jurisdiction located within the local limits of Visakhapatnam, Andhra Pradesh, India.
 - Indian Institute of Management Visakhapatnam reserves the right to accept or reject any or all the tenders or amend or cancel this process at any stage without assigning any reason whatsoever. The decision of IIMV in the matter shall be final and binding on the parties.
 - The bidders, who do not meet the eligibility criteria; or do not submit all the necessary documents in support of the eligibility criteria; or do not submit documents that are complete and valid or do not pay the requisite amount - shall be disqualified.
 - The bidder is expected to read and understand all instructions, terms and specifications given in this tender document. Failure to furnish all information required or to submit a bid not substantially responsive to the tender document in every respect will be at the bidder's risk and may result in rejection of the bid.
 - Prior to detailed evaluation, the Institute will determine the substantial responsiveness of each bid to the tender document. A substantially

responsive bid is one which conforms to all the terms and conditions of the bidding/tender document and is without any material defects and deviations. Deviations from, or objections or reservations to critical provisions such as those concerning qualification/eligibility criteria, availability of facilities and amenities as needed, availability of government/statutory approvals and clearances, ready and explicit willingness to accept and honour the terms and conditions of contract etc. will be deemed to be material deviations.

- If a bid is not substantially responsive, it will be rejected by the Institute and may not subsequently be made responsive by the bidder by correction of the non-conformity.
- Only those bidders whose technical bids have been found substantially responsive would be evaluated and compare the financial bids of only those Technical bids which have been determined to be substantially responsive. The Institute will award the contract to the successful bidder who has been determined to have qualified in the technical evaluation whose bid has been determined to be substantially responsive and is the lowest evaluated bid. The decision of IIMV on technical bid evaluation shall be final.
- If at any stage it is found that any of the details/documents furnished by the bidder is false/misleading/fabricated, his/her/its bid would be liable for cancellation without intimation to the bidder.
- The Bidder shall have the necessary licenses/ authorizations for providing Facility Management Services and obtain the same at its costs and expenses, as and when required. The Bidder/ Bidder, himself, shall be responsible for any statutory/ mandatory claims or penalties in light of the default concerning the above provisions.
- The Bidder shall follow all the rules and guidelines decided by the institute authorities.
- In case any person engaged by the successful Bidder is found to be inefficient, quarrelsome, infirm, found indulging in unlawful or illegal activities, the bidder should have to replace such person with a suitable substitute at the direction of the competent authority. In case, the person employed by the successful bidder commits any act of omission / commission that amounts to misconduct /indiscipline/ incompetence / security risks, the successful bidder will be liable to take appropriate disciplinary action against such persons, including, making good the financial loss, their removal from work, immediately after being brought to notice, failing which it would be assumed as breach of contract which may lead to cancellation of contract.
- The selected agency shall provide identity cards to the personnel deployed in this office carrying the photograph of the personnel and personal information such as name, date of birth, age, Aadhar card and

identification mark etc. attested by the Administrative Officer of the institute.

- The Institute has no binding to provide any accommodation/transportation to the staff or person deployed by the Bidder. No cooking/lodging will be allowed on the premises of the Institute at any time.
- The deployed staff shall wear neat and clean uniform according to season with the badge mentioning name and designation, provided by the Bidder at his own cost.
- The selected agency shall ensure that any details of office, operational process, technical know-how, security arrangements, and administrative/organizational matters are not divulged or disclosed to any person by its personnel deployed in this office.
- All safety accessories and measures required for the execution of the work shall be provided to the engineers by the Bidder. It is the responsibility of the Bidder to ensure that all the staff deployed by the Bidder shall be medically fit and their antecedent will be verified before the deployment in the Institute.
- The manpower deployed by the agency shall ensure that the institute properties are protected from damage. After necessary investigations, if proved that the agency/their personnel are responsible for the damage, the agency is liable and will be penalized to the extent of the value of the loss and additional charges for each incident as decided by the competent authority.
- The selected agency shall immediately provide replacements and ensure that as far as possible no designated post is left vacant in any shift. In case the agency fails to provide replacement within two working days. The pro-rata salary / wages to be recovered from quarterly bills based on hour/day if absence.
- The contractor shall be liable to comply with all the rules and regulations in respect of all statutory obligations applicable to the workmen including safety regulations.
- The contractor is liable for the payment of any and all existing taxes of the Central or State Government or of any other authority with respect to the contract or services rendered pursuant thereto.
- The contractor shall fully comply with all applicable laws, and regulations relating to P.F. Act, ESI Act, Bonus Act, Minimum Wages Act, Contract Labour Act, Workmen's Compensation Act, C.L(R & A) Act, Migrant Labour Act, Essential Commodities Act and/or such other Acts or Laws, central, states,

Municipal and local governmental agency or authority.

- The proof of remittance of statutory deductions of PF, ESI to the appropriate agency, for those employed at IIMV, must be provided by the selected agency to IIMV with quarterly bill, failing which the bill shall not be processed.
 - The Contractor shall be responsible for proper maintenance of all registers, records and accounts so far as it relates to compliance of any statutory provisions/ obligations. The contractor shall be responsible for making the records pertaining to Payment of Wages Act and for depositing the P.F. and ESI contributions, with the authorities concerned.
 - The contractor shall be responsible and liable for all the claims of his employees.
 - The contractor shall obtain adequate insurance policy in respect of his workmen engaged by it towards meeting the liability of compensation arising out of injury/disablement at work.
 - The Institute will correspond with shortlisted bidders only whenever there is a requirement.
 - Conditional offer shall not be accepted.
 - Validity of financial bids: The price quoted in the financial bid shall be valid for a period of 90 days from the date of opening of the financial bid. During the validity period of the offer, the bidder should not withdraw/modify the offer in terms and conditions quoted in the technical qualification.
 - Notwithstanding anything contained above, the Institute reserves the right to reject all, or any bid as recommended by the Tender Committee and is not bound to divulge any reason to the unsuccessful bidders.
 - Any form of canvassing/influencing will attract rejection of bid submitted by the bidder and the institute reserves the right to take such penal action (e.g. blacklisting the bidder for the present and future etc.) as it deems fit.
- **PAYMENT TERMS**
 - The bidder is required to submit the financial bid for the charges, clearly mentioning the taxes. All taxes applicable only to Educational Institutions will be considered for payment.
 - No advance payment will be made in any case. Service provider shall raise invoices on quarterly basis on completion of each quarter along with the MIS Review report and minutes of the meeting. Payment will be made after deducting TDS, GST-TDS and any other taxes as applicable from time to time as per GoI rules within 21 working days of receiving the Invoice and supporting documents through bank transfer. Updation on the actions to be taken as per the previous quarter minutes of the meeting should be submitted along with the next quarter invoices.

- In case of any increase in the taxes and levies implemented by the Govt. during the contract period, the same shall be paid by IIMV at actuals, on production of Govt. notification and proof of payment. Similarly, in case of any reduction in taxes and levies, the same must be passed on to IIMV.
- Billing of the resource shall be on pro rata basis from the date of deployment
- Security Deposit: IIM Visakhapatnam will not pay any deposits (Security, advance etc.) to vendor.

- **FORCE MAJEURE**

If at any time, during the continuance of the agreement/contract, the performance in whole or in part by the parties (i.e., the FMS Provider and IIMV), of any obligation specified in the Contract, is prevented, restricted, delayed, or interfered with by reason of war or hostility, the act of the public enemy, civil commotion, sabotage, the act of state or direction from statutory authority, earthquake, explosion, epidemic, pandemic, quarantine restriction, fire, floods, natural calamities or any act of GOD, (hereinafter referred to as an event), the parties may be excused from performance of their obligations provided that notice of happenings of any such event is exchanged by either party within two calendar days from the date of occurrence thereof. Provided further that the obligations under the agreement shall be resumed by the parties, as soon as practicable, after such an event comes to an end or ceases to exist. The decision of the Institute as to whether the obligations may be resumed and the time frame within which the obligations may be resumed shall be final and binding.

The Force Majeure events mentioned above will not in any way cause an extension of the period of the Contract, unless explicitly agreed upon by the Institute.

- **LAWS GOVERNING AGREEMENT/CONTRACT**

The Contract (to be) entered into between the Institute, and the FMS Provider shall be governed by the laws of the Union of India in force for the time being.

- **TERMINATION FOR INSOLVENCY**

The Institute may, at any time, terminate the Contract by giving one-month written notice to the FMS Provider, without any compensation to the FMS Provider, and without any liability or implications devolving on it, if the FMS Provider becomes bankrupt or otherwise insolvent as declared by a competent court, provided that such termination will not prejudice or affect any right of action or remedy, which

has accrued or will accrue to the Institute.

- **INTERPRETATION**

Any clarification regarding the meaning or intent or interpretation of any of the terms and conditions of the Tender or Contract, whether explicit or implicit, shall be sought from the Director of the Institute (Competent Authority) whose decision in the matter shall be final and binding.

- **ARBITRATION**

In the event of any dispute arising between the Institute and the FMS Provider in any matter covered under the Contract or arising directly or indirectly therefrom or connected or concerned therewith in any manner of the implementation of any terms and conditions of the said Contract, the matter shall be referred to the Director of the Institute (Competent Authority) who may appoint an eminent person distinguished in the field of management or such other field as deemed appropriate as the sole Arbitrator. The FMS Provider will not be entitled to raise any objection as regards such appointment. The award of the Arbitrator shall be final and binding on both the parties, subject to the provisions of the Arbitration and Conciliation Act, 1996, and rules made thereunder. The parties shall expressly agree that the arbitration proceedings shall be held at Visakhapatnam, Andhra Pradesh. The language of the arbitration and proceedings shall be (in) English only. The costs of arbitration shall be borne equally by both the parties.

- **JURISDICTION OF COURTS**

Any dispute arising, if any, under the Tender and Contract shall be subject to the jurisdiction of the competent courts of Visakhapatnam/Andhra Pradesh, only.

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- **Annexure-1**

LETTER FOR SUBMISSION OF BID

37

Dear Sir,

Subject: Tender for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses. Ref: Tender No.: IIMV/Admin/IT/Tender/ITFMS/22-23/01 Dt. 06.01.2023

Subject to the conditions given in the tender documents, I/We hereby submit my/our bid for Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023 inviting Bidders for IT Facility Management Services (FMS), I/We hereby certify that I/We have read all the terms and conditions of the tender document and agree to abide by them unconditionally and without demur.

S.No	Particulars	Details
1	Name of the Bidder (Firm/Co./Agency)	
2	Address of Registered Office	
3	GSTN & PAN	
4	Authorized Signatory's Name	
5	Authorized Signatory's Designation	
6	Contact No.(s): Landline	
7	Contact No.(s): Mobile	
8	Email ID:	

- **Note:** All correspondence shall be made by the Institute on the mentioned address, contact No. and email ID only.

DECLARATION

I, _____, the undersigned, being the authorized signatory for submission of bid for Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023 inviting Bidders for IT Facility Management Services (FMS), hereby declare that I read and understand all the terms and conditions of the Tender

document.

All the documents submitted, and the details being furnished are true, complete, and correct to the best of my knowledge. I also declare that no fact or information has been concealed or misrepresented in the bid being submitted. I understand that if at any time, during or after the tender process or after the award of the contract, if any breach of this declaration has been found out or comes to light, the bid will be summarily rejected and the contract (if awarded) will be nullified without the Institute incurring any liability whatsoever and suitable action as deemed fit by the Institute will be initiated against me and my firm, company or agency.

Authorized Signatory:

Full name:

Designation:

(Company Seal)

Date:

Place:

TECHNICAL BID

A). Pre-Qualification Criteria for Technical Eligibility

Tender for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses.

Ref: Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023

Bid is open to all Bidders who fulfill the eligibility criteria. The minimum eligibility criteria for selecting the vendors for the purpose stated above have been listed in this section. All bidders are requested to study the pre-qualification criteria listed below carefully and submit the bids only if they fully qualify for bidding.

Sr. No.	Criteria	Documents required to be attached with Technical Bid to establish eligibility	Documents Submitted (Yes/No)	File Name to be given
1	The bidder must be a public/private limited Company registered under Companies Act, 1956 or a partnership firm or a public/private limited company duly registered under the concerned acts. The bidder should be operating in India for the last ten years ending on 31.12.2022	Copy of Firm registration / Certificate of Incorporation, Copy of the GST certificate and Copy of PAN Card		PQ1
2	The bidder shall be a reputed Indian /Multinational Company with primary business in Information Technology; and it must be either an Original Equipment Manufacturer or Authorized System Integrator(s) of the principle OEM, in India.	OEM Authorization Certificate		PQ2

3	The bidder should be a registered entity under suitable Act with its Registered or Branch office in Visakhapatnam VMRDA region, Andhra Pradesh. The bidder should have a valid GST.	Labour/Trade/Registration Certificate of the firm clearly showing the nature of business issued by competent authority, GST Certificate and Proof of Address at Visakhapatnam, Andhra Pradesh		PQ3
4	The bidder should have positive Net-Worth for last three Financial Years ending 31.03.2022.	Copy of the audited balance sheets of the firm duly certified by an authorised Chartered Accountant.		PQ4
5	The bidder should have an average annual turnover of at least Rs. 81 Lakhs during last 3 financial years as on 31.03.2022	Copy of the audited Profit & Loss Statements for each of the last 3 financial years duly certified by an authorised Chartered Accountant.		PQ5

6	<p>The bidder should have successfully executed/completed similar services in a Central / State / Local Government Organization / Institution / PSU / Any other such public organization/ Educational institution over the last 7 years ending 31.12.2022 with <u>either of the following</u></p> <ul style="list-style-type: none"> • Three similar services completed in a financial year with total value not less than to Rs. 22 Lakhs for each work order. (or) • Two similar works completed in a financial year with total value not less than to Rs. 27 Lakhs for each work order. (or) • One similar work completed in a financial year with total value not less than to Rs. 43 Lakhs. 	The copies of the Work orders /contracts / Agreements, work completion certificates / work satisfactory report which should indicate the duration of the contract, deliverables and scope of work as stipulated		PQ6
7	The bidder must not be blacklisted by a Central / State / Local Government Organization / Institution / PSU / Any other such public organization (or) firm involved in the Educational Administration / Management	Self-declaration (Annexure-4)		PQ7

8	The Bidder must have at least seven years of experience/operation in the field of IT FMS. The required no of years of experience should include a minimum two years of experience / Operation in the field of Audio-Visual maintenance/integration/support services.	Copies of Work orders or agreements and Work completion certificates		PQ8
9	The Bidder should have valid registrations with ESIC, EPFO and other acts as applicable.	The details of the same along with supporting document are to be submitted		PQ9
10	EMD Details	(DD/Pay Order to be drawn, on any nationalized bank in favour of "Indian Institute of Management Visakhapatnam" and payable at Visakhapatnam) EMD exempted for MSME/NSIC registered agencies		PQ10

Technical evaluation will be carried out for the bidders who meet the Eligibility Criteria. After completion of detailed evaluation of technical bids, the Committee shortlists the bidders.

Note: Similar work means maintenance of Campus Network, Datacentre, Desktops, Laptops, Switches, Routers, Wi-Fi, etc.

b). Technical Evaluation Criteria (70% Weightage)

S. N o.	Criterion	Details	Reference Documents	Ma x Poi nts	Document Name to be given
A	Financial Strength of Bidder (IT related)			8	
1	Average Turnover for last three Financial Years more than or equal to Rs.1.5 crore	8 points	Audited Financial Statements		TEC1
2	Average Turnover for the last three Financial Years more than or equal to Rs. 1 crore	6 points			
3	Average Turnover for the last three Financial Years more than or equal to Rs. 80 lakhs	4 points			
B	Bidder's Experience			42	
1	IT Managed Service project in a Central / State / Local Government Organizations / educational Institutions / PSUs / Any other such public organizations of value 43 Lakhs per annum	2 points per project for a max of 3 projects	Work Orders/agreements and Completion Certificates	6	TEC2
2	IT Integration/Managed projects in an educational Institutions/universities.	2 points per project for a max of 3 projects	Work Orders/agreements and Completion Certificates	6	TEC3

3	IT Integration/Managed projects in Central / State / Local Government Organizations / Institutions / PSUs / Any other such public organizations containing the following:	2 points per project for a maximum of 3 projects	Work Orders/agreements and Completion Certificates	6	TEC4
	a. Server & Storage				
	b. DC-DR				
	c. Backup				
4	Audio-Visual Equipment Implementation / Integration/ Maintenance	2 points per project for a max of 4 projects	Work Orders and Completion Certificates	8	TEC5
5	IT Managed service projects containing:		Implementation / Work Orders and Completion Certificates	8	TEC6
	More than 300 Users	8 points			
	More than 200 Users	4 points			
	More than 100 Users	2 points			
6	<i>Managed IT Service (DC/DR +Network & Security +Desktop/Laptops)</i>		Certified Client List	8	TEC8
	Client list > 10 Nos.	8 points			
	Client list > 5 Nos	4 points			
	Client list > 2 Nos	2 points			
C	Certifications, Tools & Processes			10	
1	Tools for Service desk, Request, Incidents, Change, Problem, Asset life cycle, IT helpdesk, Network& Server availability, services, usage, performance monitoring,	2 points	Copy of the proof of 2 live sites		TEC9
2	ISO certifications: 22301:2019, 20000-1-2011, 9001:2015, 27001:2013	8 points	Copy of the Certificates		TEC10
D	Quality of Proposal			20	

1	Fairness and Completeness of Proposal as per Tender Document (Flagging, document Index, flow chart, clarity, proofs etc.)	10 points	Proposal		TEC11
2	The presentation should contain the vendor skills, experience, client list, tools & process used, IT managed service Implementation Methodology (Integration Plan, Transition, Governance, Operation, Transformation & Timelines) etc. as per the indicative list in the technical bid format.	10 points	Presentation		TEC12
E	Manpower Strength			20	TEC14
1	Certified Service Engineers across India		PF statement		
	More than 200	10 points			
	More than 100	6 points			
	More than 50	4 points			
2	Certified Service Engineers at Vizag branch		Authentic list /Professional Tax Statement		TEC15
	More than 80	10 points			
	More than 50	6 points			
	More than 30	4 points			
	Total			100	

FINANCIAL BID EVALUATION (30% WEIGHTAGE)

All the bidders are required to submit their bids in the prescribed format only.

Notes:

- Cut-off Marks for Qualifying: Financial Bids of only those Bidders who score 60 marks and above only will qualify. Only those Financial Bids will be opened and evaluated further.

- The Presentation will be evaluated by a committee constituted by IIMV. The date, time and mode of the presentation shall be communicated by IIMV, post the closure date for the submission of the Bids, to the Bidders whose Bids are not rejected.
- Bidders should submit all the documents as mentioned in the Section 14. BIDS SUBMISSION
- The Bidders should not have been blacklisted by any Department of the Government of India, Quasi-Govt., or Autonomous body of the Central Govt., anytime in the past. There should not be any criminal case registered against the Bidder including the firm and its owners, representatives, successors, assigns, partners, or management, anywhere in India or abroad. The Bidder should not have faced any action by any law enforcement agency of India or any foreign country. A declaration to this effect is to be submitted with the Technical Bid, signed by an authorized signatory (as per Annexure-4).

Name of the Bidder (Firm/Co./Agency) _____

Name & Designation of the Authorized Signatory: _____

Date:

Signature:

Place:

Name:

Company Seal:

- **Annexure-3**

BID SECURITY DECLARATION FORM

(to be printed on the company/firm/agency's letterhead)

Date:

To:

The Senior Administrative Officer (Administration)
Indian Institute of Management Visakhapatnam
Andhra Bank School of Business Building
Andhra University Campus, Visakhapatnam, AP
Sir,

Sub: 'Bid Security Declaration' for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses. Ref: Tender No: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt.06.01.2023

We, _____ understand that, as per Item 7 of the Notice Inviting Tender, bids may be supported with a 'Bid Security Declaration' towards payment of EMD for the companies which are not exempted from payment of EMD, to participate in the tender process. We declare as under:

We will automatically be suspended from being eligible for bidding in any tender issued by the Indian Institute of Management Visakhapatnam for the period of 3 years, from the date of award of contract, if we are in breach of any of the following obligation(s) under the bid conditions: -

- If we withdraw the bid or increase the quoted prices after opening of the bid and during the period of bid validity or its extended period, if any.
- In case we fail to sign the Contract in accordance with the terms and conditions (including timelines for execution of the Agreement) of this Tender or fail to furnish the Performance Security in accordance with the terms and conditions of this Tender and Letter of Award.
- During the bid process, if we indulge in any act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.

We understand that this declaration shall expire, if we are not the successful Bidder, and on receipt of IIMV's notification of the award to another Bidder; or thirty days after the validity of the Bid; whichever is earlier.

Name of the Bidder (Firm/Co./Agency)

Name & Designation of the Authorized Signatory: _____

Date: _____ Signature: _____

Place: _____ Name: _____

Company Seal: _____

• Annexure-4

DECLARATION REGARDING NON-BLACKLISTING OF THE FIRM

(To be printed on Bidder's letterhead)

To:
The Senior Administrative Officer (Administration)

Indian Institute of Management Visakhapatnam
Andhra Bank School of Business Building
Andhra University Campus
Visakhapatnam 530 003.

Dear Sir,

Subject: Non-Blacklisting declaration in connection with IIM Visakhapatnam Tender for
IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses. Ref:
Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023

This is to notify you that our Firm/Company/Organization intends to submit a proposal
in response to Tender No.: IIMV/Admin/IT/Tender/IT FMS/2022-23/01 Dated
06.01.2023 inviting Bidders for Engagement as Service Provider to Market & Manage
Executive Education Programs.

In accordance with the above we declare that:

- We are not involved in any litigation that may have an impact of affecting or compromising the delivery of services as required under this assignment.
- We are not blacklisted by Central or any State Government or by any entity, organization, agency, autonomous body, or society of any State or Central Government or any Regulatory Authority in India or any other country in the world, for any kind of fraudulent activities.
- No action by any law enforcement agency in India or abroad has ever been initiated by us, at any time.

Name of the Bidder (Firm/Co./Agency) _____

Name & Designation of the Authorized Signatory: _____

Date:

Signature:

Place:

Name:

Company Seal:

Annexure-5

FINANCIAL BID FORMAT

Tender for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses.

Ref: Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023

Price is to be quoted in this Financial Bid only, in the following format:

Sl. No.	Item Description	Quantity	Units	Basic Rate in Figures To be entered by the Bidder in Rs. (Excluding GST)	Total Amount in Rs. (Excluding GST)
1	Audio-Video Technicians	108.000	Nos		-
2	AV - cum - IT Engineers	108.000	Nos		-
3	Network Engineers	72.000	Nos		-
4	Network Admin	36.000	Nos		-
5	Server Admin	36.000	Nos		-
	Total in Figures				
	Total in words				

Notes:

- Quantity = 36 Man months X Number of Manpower (Point No.8 Manpower Requirement)
- Bids with conditions of any kind will be rejected.
- In case of any discrepancy between figures and words, the value in stated in words shall prevail.
- Price quoted in any form other than as above will result in the rejection of the Bid.
- Any corrections/interlineations on this page shall result in rejection of the Bid.

Date:

Authorized Signatory:

Place:

Full Name:

Designation:

(Company Seal)

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• Annexure-6

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LETTER OF AUTHORISATION FOR ATTENDING TECHNICAL BID OPENING

(To be printed on Bidder's letterhead)

To:

The Senior Administrative Officer (Administration)
Indian Institute of Management Visakhapatnam
Andhra Bank School of Business Building
Andhra University Campus
Visakhapatnam 530 003.

Dear Sir,

Subject: Authorization for attending bid opening of IIM Visakhapatnam Tender for IT Facility Management Services (FMS) at IIM Visakhapatnam Campuses. Ref: Tender No.: IIMV/Admin/IT/Tender/IT FMS/22-23/01 Dt. 06.01.2023

The undermentioned person, bearing Aadhar No. as follows:

Name: _____

Designation: _____

Aadhar No. _____

is hereby authorized to attend the bid opening for the tender mentioned above on behalf of _____ (Authorized Signatory) of _____ (Firm/Co./Agency).

Specimen Signature of the Authorized Representative:

Name of the Bidder (Firm/Co./Agency) _____

Name & Designation of the Authorized Signatory: _____

Date:

Signature:

Place:

Name:

Company Seal:

Note:

- Only one representative will be permitted to attend bid opening.
- Permission for entry into the hall where bids are opened may be refused in case authorization as prescribed above and/or Aadhar Card in original is not produced.

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Appendix - 1

Summary of IT Assets		
Desktops/Laptops/Printers and Peripherals		
SNO	Type Of Item	Total No. Of Items
1	Laptops	72
2	Desktops	47
3	Monitors	63
5	Printers	40
6	Docking Station	14
7	Mobiles	7
8	Head sets	36
9	Pen Tablets	36
10	USB Hubs	3
16	Harddisk	22
17	TV	8
18	Tab	1
19	Keyboards	53
20	Mouse	78
21	Kindle Device	2

List of Network Equipment at IIMV Visakhapatnam

SL. No	Device Type	Model	Location	Qty	Remark
1	Access Points	Cisco 1815i series	Transit Campus	83	cisco
2	WLC	Cisco 2504 WLC	Transit Campus	1	cisco
3	Switches Distribution	Cisco 2960-x24GIGA poe switch	Transit Campus	2	24 port switch cisco
4	Firewalls	Cisco 5516-x firewall	Transit Campus	4	5516 cisco
5	WLC	Cisco 3504 WLC	Transit Campus	1	cisco
6	Access Point (router)	TP-Routers	Transit Campus	13	router
7	Switches Distribution	DG-GS1510PL	Transit Campus	4	Digisol
8	Access Points	Aruba AP-303	Transit Campus	64	Aruba
9	Switches Access	Aruba 2530-24giga poe+ switch	Transit Campus	5	aruba 24 port switch
10	CCTV camera	Hikvision dome+bullet cameras	Transit Campus	34	Hikvision
11	DVR	Hikvision DVR	Transit Campus	1	hikvision
12	Access Points	Cisco AIR-CAP2702i-DK9	Transit Campus	25	cisco
13	Switches Distribution	Cisco 2960-x48TC switch	Transit Campus	2	cisco
14	Switches – Core	Cisco 3650-x48PD switch	Transit Campus	2	cisco
15	Switches Access	TP-8PORTSWITCH	Transit Campus	2	tp-link 8-port for porta cabling
16	Switches Access	Aruba 2530-8giga switch	Transit Campus	1	aruba 8 port switch
17	CCTV camera	Cisco CIVS-IPC-3260	Transit Campus	25	cisco
18	NVR	Hikvision NVR	Transit Campus	1	Hikvision
19	NAS (NETGEAR)	RMD_4E	Transit Campus	1	netgear
20	LLB	APV 1600	Transit Campus	1	Array
21	DVR	Hikvision DVR	Transit Campus	1	Hikvision
22	Access Point	Cisco AP 9115	Parmenant Campus	800	cisco
23	WLC	Cisco WLC 9800	Parmenant Campus	2	cisco
24	Switches – Core	Cisco Catalyst 9600	Parmenant Campus	2	cisco
25	Switches Distribution	Cisco Catalyst 9200	Parmenant Campus	10	cisco
26	Switches Distribution	Cisco Catalyst 9200	Parmenant Campus	89	cisco
27	NVR	Hikvision NVR	Parmenant Campus	13	Hikvision
28	Firewalls	Fortinet Firewall 900D	Parmenant Campus	2	Fortigate
29	Switches Distribution 24port poe	Cisco Catalyst 9200	Parmenant Campus	70	cisco
30	Switches Distribution 48port poe	Cisco Catalyst 9200	Parmenant Campus	65	cisco
31	CCTV camera	Hikvision IP dome+bullet cameras	Parmenant Campus	900	Hikvision
32	Biometric	Martix Door Biometric	Parmenant Campus	100	martix
33	servers	Cisco series UCS C240 M5S	Parmenant Campus	4	cisco
34	Server Switches	Cisco Catalyst 9500	Parmenant Campus	2	cisco
35	DNAC	Cisco Dna center	Parmenant Campus	1	cisco
36	ISE	Cisco ISE	Parmenant Campus	2	cisco
37	Tele phone nodes	TELE-PHONE node ip epbx	Parmenant Campus	1500	aktel Tele-phone
38	SAN	HP-SAN Storage	Parmenant Campus	1	HP

39	LLB	Radware Alteon 5208 LLB	Parmenant Campus	2	Radware
40	Switches Distribution 24port	HP-5130-SWITCH	Parmenant Campus	1	HP
41	Firewalls	Fortinet Firewall 100D	Parmenant Campus	1	Fortigate
42	Switches Distribution 24port poe	HP-5130-SWITCH	Parmenant Campus	1	HP
43	CCTV camera	Hikvision IP dome+bullet cameras	Parmenant Campus	10	Hikvision
44	ANYLIZER	FORTIANALYZER 200F	Parmenant Campus	1	Fortigate
45	ANYLIZER	FORTIANALYZER 100F	Parmenant Campus	1	Fortigate
46	TAPE Drive	HPE MSL-3040	Parmenant Campus	1	HP
47	server	Cisco series UCS C240 M3L	Transit Campus	2	cisco
48	Media Gateway	Aktel Media gateway	Parmenant Campus	37	aktel

Academic Block A - Ground Floor 100 Pax Step Seating Classroom - LLT 01					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96110009L, X96U120034L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100114
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100090
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-80003319
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	EITQJ0034
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	3	A2EXFCV, A2EXFCR, A2EXF0M
NS-12	Whiteboard capture system with HDMI Output -	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00366, KE2142DG01224
NS-13	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	PIPLITE113018048
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	B3NYTJ3
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCF0GWW8
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928056, C204210928064
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000053
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	C3NYTJ3
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2127SY00EQ98
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NPU
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNRU
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2FJ3EU
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3P7
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCA SA 60-1381-22	1	A1T83KC
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9L6, A2HC976, A2HLPWD, A0TDVW1
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW856
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2UV
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2025AHE
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192400597
NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUYH

NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0371, A2128-0042
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0282, A2128-0220
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	501050854573, 701000204411, 701000204816
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	0236-2149-08,0115- 2214-08,02117-2126- 08,0342-2214-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0613-2209-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200-005	1	0175-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN3870,MLJAN4367, MLJAN4278,MLJAN4320, MLJAN4368,MLJAN4142, MLJAN3868,MLJAN4321
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181127,M27182619, M27182624,M27182127
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A6LJ79E
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A1JNQFM
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A57A0250
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block A - Ground Floor 100 Pax Step Seating Classroom - LLT 02					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U150001L, X96U150012L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100095
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100119
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-80003389
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	EITQJ0097
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	3	A2FJ3CK, A2FQFM0, A2EXEXL
NS-12	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	K2C148WM00175 KE2142DG01286
NS-13	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PIP Micro PC -	A-NeuVideo	ANI-PIP-LITE	1	113018042
NS-15	i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	64NYTJ3,
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCFOGFW8
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928053, C204210928057
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000040
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	84NYTJ3
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2127SY00EQ38
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NTJ
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9UV
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2KYE71
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A293FHP
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNXV
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2F99A2, A2HC9KM, A2HC947 ,A2HC9K5
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW84D
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A20U4NF
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CDMJL
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiP1000	1	WIPG1KP181200075

NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A28NW7W
NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0263, A2128- 0249, A2128-0257
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0257, A2128-0312
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC- 11	1	602050090196 701000206054, 701000206212
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	0036-2150-08, 0194- 2149-08, 2444-2126-08, 2409-2126-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0146-2124-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200- 005	1	0318-1739-06
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4175,MLJAN4172, MLJAN4502,MLJAN4506, MLJAN4143,MLJAN4416, MLJAN4285,MLJAN4417
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181125,M27182618, M13181129,M27182621
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE53
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A1JNQD4 XPA 1002 - This is Standby unit
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5LA0250
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block A - Ground Floor 100 Pax Step Seating Classroom - LLT 03					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U150019L, X96U150004L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	2865-2323100070
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NTTS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100092
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-80003307
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	EITQJ0088
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	3	A2EXEYU, A2EXEXJ, A2EXVEL
NS-12	Whiteboard capture system with HDMI Output -	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2143WM01702 KE2142DG01774
NS-13	Whiteboard capture system with HDMI Output Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	PIPLITE11308049
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	G3NYTJ3
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	21295CF0GW78
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928080, C204210928079
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000044
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	83NYTJ3
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2127SY00EQ68
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NPX
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNTH
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2EXVEL
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3PL
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A27JUQQ
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HLP7X, A2F16H9, A2HC97V, A2HCACH
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW84K
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2F6NHH
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CM3WE
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192400589
NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUVV

NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0069 A2128-0272
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0251 A2128-0259
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854586, 701000206068, 701000204794
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	2462-2126-08 2443-2126-08 0039-2114-08 0416-2112-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0120-2124-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200-005	1	0167-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4313,MLJAN4299,MLJAN4298,MLJAN4324, MLJAN4325,MLJAN4262, MLJAN4327,MLJAN4277
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181607 M13181130, M27182626 M13181123
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26WTE5
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A1X7JK4 XPA 1002 - This is Standby unit
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5CA0263
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- Ground Floor 100 Pax Step Seating Classroom LLT - 04					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U150010L, X96U150011L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28576783100021
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900028
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80002911
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0024
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXF13,A2EXF10,A2EXF 09
NS-12	Whiteboard capture system with HDMI Output -	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00267, KE2142DG01320
NS-13	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	1891835
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	2QVDJ23
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	210SCF0B4MB
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210621415, C204210621416
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher,	Integrator	Custom	1	NA
	Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,				
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1AQ00P1000043
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	6QVDJ23
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2117SY051DT8
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2DWK70
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9TK
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXEW8
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2A892K
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2AL6NN
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2F163R,A2F15T5,A2F16 XJ,A2F15A2
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AN690
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2VN
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D67JC
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192400600

NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUUX
NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2008-0123, A2007-0122
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2007-0120, A2007-0121
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	501050399928,6020500 90233
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	2428-2126-08,2151- 2126-082461-2126- 08,2425-2126-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0096-2124-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200- 005	1	0189-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4174,MLJAN4162, MLJAN4165,MLJAN4176, MLJAN4160,MLJAN4156, MLJAN4163,MLJAN4183
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181136,M13181602, M13181132,M27182814
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A2DDLMP
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A2DDNJK
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	PSZ22501U68
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D	UMS	27U	1	NA
	Nuts, Cooling Fans, Castor Wheels				
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C - First Floor 100 Pax Step Seating Classroom LLT - 05					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U150017L, X96U150002L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5-12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100115
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900053
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003319
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0067
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXF9L,A2EXF49, A2FJ3E7
NS-12	Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	Cast - VC2141DG04402
NS-13	Whiteboard capture system with HDMI Output Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Camera - KC2148WM00373
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	Yet to be delivered
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	113018108
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	GQVDJ23
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	2129SCF0G8V8
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	C204210928084, C204210928063
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	NA
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	1CQ00P100003Q0
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	NA
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	5RVDJ23
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	2119SY001WW8
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2HD88W
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2C3HLD
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	A2EXFC2
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	NA
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A293FHX
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2T83KE
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2HLP08, A2HCAH9, A2HC97F, A2EV44K
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2AW847
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2EJ2VP
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	A2C2NL1
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800281
NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A28NW79

NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0206,A2128-0291
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0231,A2128-0273
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854582
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	2436-2126-08,2429-2126-08,2459-2126-08,2456-2126-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0099-2124-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200-005	1	0195-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN3904,MLJAN3907, MLJAN4323,MLJAN4326, MLJAN4147,MLJAN4116, MLJAN4117,MLJAN4148
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181137,M27182623, M13181538,M13181128
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE43
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	Not yet supplied. XPA 1002 Using as a standby
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5DA0264
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- First Floor - 72 Pax Hive Classroom - 01(LLT-06)					
Sl. No	Description	Make	Model	Qty	Serial No
NS-58	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U150008L, X96U130032L
NS-59	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-60	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-61	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28225650900115
NS-62	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-63	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28652323100108
NS-64	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-65	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003385
NS-66	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0057
NS-67	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-68	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXF4P,A2EXFA3, A2EXFCF
NS-69	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00342, KE2142DG01756
NS-70	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-71	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018103
NS-72	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 3090 Micro	1	34NYTJ3
NS-73	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCF0GG29
NS-74	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928085, C24210928082
NS-75	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-76	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1EQ00P1000035
NS-77	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-78	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	6SVDJ23
NS-79	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	21315Y022RT9
NS-80	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H8C5
NS-81	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9T5
NS-82	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2FJ3CX
NS-83	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-84	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-85	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-86	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-87	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A293FLQ
NS-88	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2AL6NT
NS-89	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HLQ71,A2HC9NN, A2HLP7C,A2HC9KF
NS-90	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW80H
NS-91	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2W7
NS-92	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D25QL
NS-93	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA

NS-94	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-95	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-96	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-97	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-98	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800289
NS-99	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUYJ
NS- 100	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0324,A2128-0210
NS- 101	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0309,A2128-0316
NS- 102	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	602050090205,5010508 54583
NS- 103	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0120-2124-08
NS- 104	12x8 DSP, 16 channel Dante I/O & AEC audio mixer - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built- in USB audio and built-in 16x16 Dante	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0112-2124-08
NS- 105	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4287,MLJAN4296, MLJAN4348,MLJAN4263, MLJAN4264,MLJAN4349, MLJAN4297,MLJAN4288
NS- 106	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26WTEK
NS- 107	32" 4K LCD LED Monitor - 32" Dia, Full-HD Resolution, 400 NITS, 24 x 7, VGA, HDMI & Display-Port Ports	Samsung	DCE32	12	0DV0HNBRA02443H, 0DV0HNBRA02336Y, 0DV0HNBRA02412A, 0DV0HNBRA01680T, 0DV0HNBRA02317W, 0DV0HNBRA02334P, 0DV0HNBRA02350W, 0DV0HNBRA02326B, 0DV0HNBRA02289H, 0DV0HNBRA02324Z, 0DV0HNBRA02318M, 0DV0HNBRA02349Y
NS- 108	Single Monitor Gas Spring Monitor Arm - Single Monitor Space Spacing Gas Spring Monitor Arm VESA 200x200 with C Type Clamp	Lumi	LD23-C012	12	NA
NS- 109	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	12	A2128-0302,A2128-0338 A2128-0219,A2128-0131 A2128-0237,A2121-0208 A2128-0235,A2121-0157 A2128-0135,A2128-0262 A2128-0205,A2128-0280
NS- 110	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	12	A2121-0164,A2128-0221 A2128-0277,A2128-0265 A2128-0243,A2121-0201 A2128-0355,A2128-0253 A2128-0241,A2128-0217 A2128-0227,A2128-0323
NS- 111	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	12	NA
NS- 112	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	12	NA
NS-113	6-Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	F9E600zb2M- GRY	12	NA
NS-114	Under desk Mounting plate - Under desk Mounting plate	Integrator	Custom	12	NA
NS- 115	Tabletop Dante Boundary Microphone Cardioid Condenser Boundary Microphone with direct Dante Network Output	Audio Technica	ATND971a/B	12	21520045,21520051,215 20041,21520058,215200 44,21520042,21520052, 21520043,21520049,215 20046,21520050,215200 47

NS- 116	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	6G72196HA000A
NS- 117	48 Port Gigabit PoE+ Network switch - 48 x 10/100 PoE+ ports with 740W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4248PX	1	53KE1A5GA0259
NS- 118	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS- 119	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- First Floor - 72 Pax Hive Classroom - 2 (LLT-07)					
Sl. No	Description	Make	Model	Qty	Serial No
NS-58	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI	Epson	EB-800F	2	X96U110011L, X96U110007L
NS-59	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-60	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW-E24	2	NA
NS-61	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100051
NS-62	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-63	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28338693900051
NS-64	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-65	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003305
NS-66	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0053
NS-67	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-68	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXF0Y,A2EXF4A, A2FJ3D4
NS-69	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00397, KE2142DG01258
NS-70	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-71	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018047
NS-72	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	2SVDJ23
NS-73	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03EA8
NS-74	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928074, C204210928075

NS-75	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-76	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000052
NS-77	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-78	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	JQVDJ23
NS-79	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2131SY00DE18
NS-80	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NQ9
NS-81	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNVK
NS-82	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2EXF0C
NS-83	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-84	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-85	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-86	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-87	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3MU
NS-88	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNY Y
NS-89	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9ME,A2HC9LX, A16KMTR,A2HC9KX
NS-90	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AN698
NS-91	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A26J2U0
NS-92	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D67RL
NS-93	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26- 663-03	6	NA

NS-94	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-95	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-96	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-97	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-98	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800284
NS-99	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A1WETE1
NS-100	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0367,A2128-0376
NS- 101	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0352,A2128-0349
NS- 102	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM 3 Y + 01- HDEXEMIC-11	1	501050854581, 602050090204
NS- 103	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0328-2129-08
NS- 104	12x8 DSP, 16 channel Dante I/O & AEC audio mixer - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built- in USB audio and built-in 16x16 Dante	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0327-2129-08
NS- 105	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4275,MLJAN427 6 MLJAN4350,MLJAN505 , MLJAN4504,MLJAN435 6, MLJAN4354,MLJAN434 7
NS- 106	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE4D

NS- 107	32" 4K LCD LED Monitor - 32" Dia, Full-HD Resolution, 400 NITS, 24 x 7, VGA, HDMI & Display-Port Ports	LG/Samsung	32SM5KE/DCE3 2	12	0DV0HNBRA02308R,0D V 0HNBRA02361L,0DV0H N BRA02291A,0DV0HNB RB 01691P,0DV0HNBRA02 2 78F,0DV0HNBRA02411 P, 0DV0HNBRA02288J,0D V 0HNBRA02407W,0DV0 H NBRA02437P,0DV0HN BR A02337Z,0DV0HNBRA0 2 422X,0DV0HNBRA0230 3 V
NS- 108	Single Monitor Gas Spring Monitor Arm - Single Monitor Space Spacing Gas Spring Monitor Arm VESA 200x200 with C Type Clamp	Lumi	LD23-C012	12	NA
NS- 109	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	12	A2128-0244,A2128-0372 A2128-0351,A2128-0293 A2128-0315,A2128-0362 A2128-0285,A2128-0245 A2128-0374,A2128-0310 A2128-0354,A2128-034
NS- 110	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	12	A2128-0373,A2128-0146 A2128-0290,A2128-0370 A2128-0149,A2128-0328 A2128-0329,A2128-0332
					A2128-0366,A2128-0378 A2128-0322,A2128-0327
NS- 111	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26- 663-03	12	NA
NS- 112	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26- 663-06	12	NA
NS-113	6-Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	F9E600zb2M- GRY	12	NA
NS-114	Under desk Mounting plate - Under desk Mounting plate	Integrator	Custom	12	NA

NS- 115	Tabletop Dante Boundary Microphone Cardioid Condenser Boundary Microphone with direct Dante Network Output	Audio Technica	ATND971a/B	12	21520075,21520048,215 20062,21520055,215200 66,21520060,21520059, 21520063,21520061,215 20077,21520053,215200 54
NS- 116	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	6G72195NA002B
NS- 117	48 Port Gigabit PoE+ Network switch - 48 x 10/100 PoE+ ports with 740W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4248PX	1	53KE1A5XA01CC
NS- 118	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS- 119	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - Ground Floor 100 Pax Step Seating Classroom L.L.T - 08					
Sl. No	Description	Make	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U120038L, X96U120039L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100109
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900052
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003342
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0025
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2FJ3E6, A2EXF1Y, A2EXEW9, A2EXFCK
NS-12	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KE2142DG00098, KC2148WM00182
NS-13	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018046
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	H3NYTJ3
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03E98
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928059, C204210928079
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000038
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	24NYTJ3
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2119SY002B28
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NTF
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNV5
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXFCK
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A293FHT
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQP0H
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2F999Y, A2HC9N2, A2HC9MH, A2HC9ML
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7YJ
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2U2
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CDMK0
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	KP181300151
NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A23J8M6
NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0269, A2128-0342
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0339, A2128-0053

NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HD/VENUNM3 Y + 01-HDEXEMIC-11	1	501050854584, 701000206192, 701000204814
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	2446-2126-08,2419-2126-08,0185-2149-08,0185-2149-08,2110-2126-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0107-2124-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200-005	1	0183-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN3943,MLJAN4155, MLJAN4300,MLJAN4274, MLJAN3940,MLJAN4289, MLJAN4302, MLJAN4157
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181124,M13181138 M13181606,M13181603
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26LJ71
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A1WTP37 XPA 1002 - This is Standby unit
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE195VA0044
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - Ground Floor 100 Pax Step Seating Classroom - LLT 09					
Sl. No	Description	Ma	Model	Qty	Serial No
NS-01	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	2	X96U120031L, X96U120016L
NS-02	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	2	NA
NS-03	Tab tensioned motorized screen - 110" Enhanced Electric Tab-Tensioned Projection Screen, IR/RF remotes, wireless 5- 12v trigger, low-voltage wall switch, MaxWhite FG 1.1 Gain	Elite Screens	SKT110XHW- E24	2	NA
NS-04	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28652323100107
NS-05	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-06	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28338693900057
NS-07	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-08	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003329
NS-09	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQ0050
NS-10	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-11	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	4	A2EXFCA, A2XFCH, A2FJ3MR, A2EXEYJ
NS-12	Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2143WM02495 KE2141DG04884
NS-13	Whiteboard capture system with HDMI Output Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-14	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018057
NS-15	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	14NY1J3
NS-16	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03EB8
NS-17	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928078, C204210928068
NS-18	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-19	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000049
NS-20	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-21	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	Dell OptiPlex 7070 Micro	1	B4NYTJ3
NS-22	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2119SY001X18
NS-23	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NRN
NS-24	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9VA
NS-25	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2KYE7E
NS-26	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-27	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-28	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-29	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-30	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3MJ
NS-31	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNYX
NS-32	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HLP87, A2HC9K4, A2F15CM, A2HC972
NS-33	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7Y0
NS-34	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2F6NJ7
NS-35	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D25QT
NS-36	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
N-37	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-38	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-39	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-40	IR Emitting Diode to remote control IR devices - IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-41	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	KP192400549
NS-42	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2EJ3MJ

NS-43	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0337, A2128-0247
NS-44	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0061, A2128-0317
NS-45	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854580, 701000206193, 701000204788
NS-46	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	0029-2150-08,2476- 2126-08,2418-2126- 08,2437-2126-08
NS-47	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD	1	0314-2145-08
NS-48	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200-005	1	0187-1826-09
NS-49	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN3890,MLJAN4286 MLJAN4511,MLJAN4512 MLJAN3891,MLJAN3886 MLJAN3882,MLJAN3943
NS-50	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M27182625,M13181546, M13181133,M13181134
NS-51	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-52	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26L J73
NS-53	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	A1X7JH3 XPA 1002 - This
NS-54	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5BA0262
NS-55	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-56	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - Ground Floor 100 Pax Studio Classroom - LLT 10					
Sl. No	Description	Make	Model	Qty	Serial No
NS-121	98" 4K LCD LED Monitor - 98" Dia, UHD Resolution, 400 Nits Brightness, 24x7	Newline	TT-9819NT	2	IC067005AB0103, IC067005AB0163
NS-122	Wall mount bracket for 85" - 98" displays - XL Heavy Duty Universal Flat Screen Wall Mount	Btech Mounts	BT9903	2	NA
NS-123	75" 4K LCD LED Monitor - 75" Dia, UHD Resolution, 600 Nits Brightness, 24x7	Christie Digital	UHD752-L	1	28225650900014
NS-124	Motorized Flip Down TV Mount Large display - Motorized Flip Down TV Mount Large display	Lumi	PLB-M0546	1	NA
NS-125	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28652323100078
NS-126	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-127	F-HD SDI PTZ Camera - Full-HD PTZ Camera w/ 22x Optical Zoom & HD-SDI Output	Panasonic	AW-HE385WEJ	3	E1TQJ0001, E1TQJ0003, E1TQJ0002
NS-128	PTZ camera tracking software - Auto tracking software	Panasonic	AW-SF100	1	NA
NS-129	PTZ camera remote controller - IR remote controller	Panasonic	AW-RM50G	1	DVQL1605ZA
NS-130	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	3	NA
NS-131	27" Touch Interactive All-in-one PC - Touch Interactive includes Pop up Camera, Microphone, Speakers. VESA Interface Bracket to be included. Intel Core™ i7-8700 (6 Cores/12MB/12T/up to 4.6GHz/65W) with Windows Pro 10 OS	Dell	OptiPlex All in One	1	86457J3
NS-132	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2119SCF03EG8
NS-133	Video Switcher 9 input, 6 output Video Switcher, Inbuilt P in P, Inbuilt Multiviewer, Chroma keying	Panasonic	AV-HS410E	1	J0TUA0001
NS-134	PTZ camera IP joystick - Joystick Camera Controller	Panasonic	AW-RP60ED	1	1TRA0032
NS-135	SDI Audio Embedder SDI Audio Embedder	Blackmagic Design	CONVMCAUDS2	1	6191082
NS-136	Raw format digital recorder Dual SSD Dock 4K recording system	Blackmagic Design	HYPERD/ST/12G	1	9072417
NS-137	4-way MultiDock MultiDock 10G	Blackmagic Design	DISKMDOCK4/U 10G	1	201909004
NS-138	SDI to HDMI format converter Micro Converter SDI to HDMI with Power Supply	Blackmagic Design	CONVMCIS/SH/WPSU	1	8792495
NS-139	Sync Generator Sync Generator	Blackmagic Design	CONVMSYNC	1	8939325
NS-140	Hot swappable SSD - 500GB 3D SATA III 2.5" Internal SSD	SanDisk	SDSSDH3-500G-G25	2	21322B802983, 21322B805245
NS-141	24" 4K LCD LED Monitor - 24" Dia, Full-HD Resolution, 250 NITS, 16 x 7, VGA, HDMI & Display-Port Ports	Samssung	LS24R650FDWX XL	2	CW76H4TR900069H, CW76H4TR900059W
NS-142	Dual monitors desktop arm - Dual monitors heavy-duty aluminium gas spring monitor arm for 24" display	Lumi	LDT37-C024P	1	NA
NS-143	Video editing system & software iMac w/ Retina 5K display, 3.6 GHz Intel Core i9 8 Core, 32GB RAM, 1TB SSD. Adobe Premier Pro - Professional Video & Film Editing software subscription for 3 years.	Apple	iMac + Adobe	1	C02GW0DYPN78
NS-144	Multichannel Headphone Amplifier - 4-Channel Stereo Headphone Amplifier	Pyle Pro	PHA40	1	NA
NS-145	Studio monitoring headphone - Studio monitoring headphone	Beyerdynami c	DT 770 PRO	1	483664123709
NS-146	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KE2141DG02903, KC2148WM00199
NS-147	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-148	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018101
NS-149	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	D3NNTJ3
NS-150	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2128LZXDDJ8H8
NS-151	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928060, C204210928069
NS-152	10" Touch Control Interface 10" Tabletop TouchLink Pro Touchpanel	Extron	TLP Pro 1025T 60-1565-02	1	A28NW7H
NS-153	LED Video Conferencing Light Highly pure having CRI & TLCI above 97 and completely color corrected flicker free soft light. High quality LED light having CRI >95 throughout 2700K- 5700K with 110 lm/w, camera friendly with no green tone, Instant start, compatible for full ceiling panel	Leksa Lighting	Conex	9	31267, 31254, 31263, 31253, 31261, 31265, 31266 (2no's of lights handed over to client)
NS-154	installation & Light with pan and tilt options. Wireless Remote - For controlling LED Video Conferencing Light	Leksa Lighting	RF Remote	1	NA
NS-155	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-156	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000036
NS-157	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-158	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	54NNTJ3
NS-159	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2131SY02D1T8
NS-160	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NPY
NS-161	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNV3
NS-162	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	2	A2FJ3C1, A2KYE7E
NS-163	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with faceplate cover	Integrator	Custom	1	NA
NS-164	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-165	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-166	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-167	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3MM
NS-168	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	2	A2FJ3MW, A2FJ3C1
NS-169	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQP00
NS-170	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9M9, A2HC9JU, A2HC97H, A2HC9KQ

NS-171	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7WE
NS-172	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	2	A2EJ2YU, A2DU4RA
NS-173	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	7	NA
NS-174	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	22	NA
NS-175	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-176	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-177	IR Emitting Diode to remote control IR devices -IR Emitter and Shield - Dual Kit	Extron	Dual Emitter Kit 70-283-02	1	NA
NS-178	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	1KP192400550
NS-179	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUYH
NS-180	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0133, A2128-0266
NS-181	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0113, A2128-0287
NS-182	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDEVENUNM3 Y + 01- HDEXEMIC-11	1	501050854579, 701000206182, 701000206222
NS-183	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	4	2474-2126-08,0367- 2214-08,0375-2214- 08,2451-2126-08
NS-184	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines and built-in Dante digital audio interface	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0140-2124-08
NS-185	4x8 DSP, AEC audio mixer w/ POTS port - CONVERGE Pro 2 DSP Mixer with 4 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio and built-in telephone interface.	Clearone	CONVERGE Pro 2 48T 910-3200- 005	1	0178-1826-09
NS-186	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	8	MLJAN4357,MLJAN3896, MLJAN3885,MLJAN4159, MLJAN4164,MLJAN4357, MLJAN4376,MLJAN4355
NS-187	Front-of-House modular columnar array loudspeaker - Modular columnar array loudspeaker 300 W (1200 W peak), Nominal Dispersion 145° H x 20° V	QSC	AD-S162T AD-S802T	2	M13181135, M27182620
NS-188	Wall bracket for modular columnar array loudspeaker - MA12/MA12EX pitch lock upper bracket	QSC	AD-S162T - BRKT AD-S802T - BRKT	2	NA
NS-189	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26WTDN
NS-190	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004 60-1760-01	1	A1N07E9 XPA 1002 - This is Standby unit
NS-191	4 Channel Wireless Receiver - 4 Channel Wireless Receiver with RF band M715 (710-740 MHz) Compressed; Docking station included.	Clearone	4 Channel Wireless Receiver 910-6000-402-C	1	0003-1841-09
NS-192	Wireless Handheld Microphone - Wireless Handheld with SACOM H18, Condenser, Cardioid Microphone capsule with RF band M800 (793-819 MHz)	Clearone	Wireless Handheld Transmitter Cardioid 910- 6003-006-C	4	0429-1812-09, 0427-1812-09, 0428-1812-09, 0430-1812-09
NS-193	Wireless Extension Antenna kit 100ft - Wireless Extension Antenna kit with pair of ceiling mount antennas and 100 Ft LMR400 Non-Plenum Cables tuned for RF band M715 (710-740 MHz)	Clearone	Extension Antenna Kit - 100 Ft LMR400 Cables 910- 6005-132	1	NA
NS-194	Wireless Extension Antenna kit 75ft - Wireless Extension Antenna kit with pair of ceiling mount antennas and 75 Ft LMR400 Non- Plenum Cables tuned for RF band M715	Clearone	ExtensionAnten na Kit-75 Ft LMR400 cables 910-6005-122	1	NA
NS-195	Wireless Extension Antenna Combiner - Wireless Extension Antenna Combiner - 2- Way, 3 dB Loss	Clearone	910-6005-200	1	0003-1841-09
NS-196	Antenna extension cable - RG58 Plenum Cables w/ TNC Male Connectors-10-Ft, 1 each	Clearone	DSA-Cables(10)- P	2	NA
NS-197	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- TSEP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5MA025E
NS-198	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-199	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Vekro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block A - First Floor 50 Pax Step Seating Classroom - MLT 01					
Sl. No	Description	Make	Model	Qty	Serial No
NS-201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120036L, X96U110008L, X96U120015L
NS-202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100114
NS-204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003332
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0023
NS-207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXFAP, A2EXEUF, A2EXFC5
NS-209	Whiteboard capture system with HDMI Output- Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2143WM01733 KE2142DG00074
NS-210	Whiteboard Capture System Extender Mount -Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018110
NS-212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	3RVDJ23
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCF0GFX8
NS-214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928052, C204210928084
NS-215	Wooden Lectern -Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	E1TQT0023
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	DSVDJ23
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	211SY001V18
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2CX9KV
NS-221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2HC989
NS-222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXFC5
NS-223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3MW
NS-228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2AL6N2
NS-229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A0RXCC8, A2HCAJ, A2HC989, A2HC9K3
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW82A
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2UV
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CDMK3
NS-233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	1KP192400587
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2CKM7P

NS-239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0256, A2128-0283
NS-240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2121-0091, A2121-0182
NS-241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854566, 701000206093, 701000204815
NS-242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	0382-2214-08, 0371-2214-08, 0413-2214-08
NS-243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910-3200-009-D	1	0592-2269-08
NS-244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN3894,MLJAN4144, MLJAN4161,MLJAN3895, MLJAN4158,MLJAN4150
NS-245	Front-of-House articulated array loudspeaker -Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780892, TAL780881
NS-246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker -Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS-247	8 Channel Power Amplifier -Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26WTD8
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004 60-1760-01	1	A1M86FK
NS-249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5MA01B5
NS-250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block A - First Floor 50 Pax Step Seating Classroom - MLT 02					
Sl. No	Description	Make	Model	Qty	Serial No
NS-201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120030L X96U120009L X96U120022L
NS-202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100091
NS-204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003372
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0030
NS-207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXFCP, A2EXF4D, A2EXEWM
NS-209	Whiteboard capture system with HDMI Output- Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00236 KE2142DG01156
NS-210	Whiteboard Capture System Extender Mount - Enables 8" Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018055
NS-212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	F3NYTJ3
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCF0GEA3
NS-214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928063, C204210928074
NS-215	Wooden Lectern -Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000037
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	GRVDJ23
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2119SY001V38
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2DWK69
NS-221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9VE
NS-222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXEWL
NS-223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A293FHA
NS-228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2EKXLQ
NS-229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2KM3SY, A2HC9MN, A2KM358, A2HC9K7
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW833
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2KL5CE
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2C2NN7
NS-233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	1KP192400557
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2CKM8A

NS-239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2121-0013, A2128-0330
NS-240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2121-0189, A2128-0242
NS-241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854574, 70100020603, 70100020646
NS-242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	0374-2214-08, 2184-2124-08, 1705-2212-08
NS-243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910-3200-009-D	1	0404-2145-08
NS-244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN3944,MLJAN3542, MLJAN4138,MLJAN4149, MLJAN4231,MLJAN4233
NS-245	Front-of-House articulated array loudspeaker -Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780886, TAL780888
NS-246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker -Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS-247	8 Channel Power Amplifier -Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE31
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004 60-1760-01	1	A1NXNMV
NS-249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5VA01D8
NS-250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- Second floor- 50 Pax Step Seating Classroom MLT - 07					
Sl. No	Description	Make	Model	Qty	Serial No
NS- 201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120003L, X96U150021L, X96U120021L
NS- 202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS- 203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	282756450900079
NS- 204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-8003363
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0047
NS- 207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS- 208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	3	A2FQFKX,A2EXF5L, A2EXF6K
NS- 209	Whiteboard capture system with HDMI Output -	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00034, KE2142DG01843
NS-210	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018056
NS- 212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	GPVDJ23
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03EC8
NS- 214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928089, C204210928062
NS- 215	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000022
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS- 218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	7RVDJ23
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2131SY02F8C8
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2HD89N
NS- 221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9RU
NS- 222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2FQFK7
NS- 223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2AYMDA
NS- 228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNY6
NS- 229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC983,A2HC9KU, A2F999P,A2HC9MA
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW81M
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2UF
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D25RA
NS- 233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS- 234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800285
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A28NW7P
NS- 239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0240,A2128-0214

NS- 240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0099,A2128-0054
NS- 241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	501050854570,6020500 90190
NS- 242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	2124-2126-08,2452- 2126-08,2177-2126-08
NS- 243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0128-2124-08
NS- 244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN4315,MLJAN4317, MLJAN3946,MLJAN3947, MLJAN4427,MLJAN4439
NS-245	Front-of-House articulated array loudspeaker -Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780879,TAL780882
NS- 246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker - Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS- 247	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26LJ61
NS- 248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	Not yet supplied. XPA 1002 Using as a standby
NS- 249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53K1A5HA0268
NS- 250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS- 251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- Second Floor- 50 Pax Step Seating Classroom MLT - 08					
Sl. No	Description	Make	Model	Qty	Serial No
NS- 201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U150014L, X96U110004L, X96U120024L
NS- 202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS- 203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	
NS- 204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003372
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0041
NS- 207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS- 208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	3	A2EXEYA,A2EXEWK, A2EXF5P
NS- 209	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00359, KE2142DG01767
NS-210	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PIP	A-NeuVideo	ANI-PIP-LITE	1	113018102
NS- 212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	JRVDJ23
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2131SY028ZB8
NS- 214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928087, C204210928086
NS- 215	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000029
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS- 218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	1SVDJ23
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2119SCF03D8
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NU
NS- 221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNT2
NS- 222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXF1K
NS- 223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS- 227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2A88YQ
NS- 228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A29CAVA
NS- 229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9KM,A2HH8A0, A2HC97A,A2HCAJR
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW84W
NS-231	1x4 HDMI Distribution Amplifier -Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2DU4NA
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2C2NQ8
NS- 233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS- 234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800295
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2ED6XY

NS- 239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2121-0122,A2121-0233
NS- 240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0326,A2128-0311
NS- 241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	6602050090191, 501050854571
NS- 242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	0023-2114-08,2449- 2126-08,2466-2126-08
NS- 243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910-3200-009-D	1	0146-2124-08
NS- 244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN3893,MLJAN3900, MLJAN4373,MLJAN4374, MLJAN4378,MLJAN4375
NS- 245	Front-of-House articulated array loudspeaker - Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780893,TAL780873
NS- 246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker - Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS- 247	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358	1	A26UE4R
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	Not yet supplied. XPA 1002 Using as a standby
NS-249	24 Port Gigabit PoE+ Network switch -24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A57A0242
NS- 250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS- 251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block C- Second Floor - 50 Pax Step Seating Classroom MLT - 09					
Sl. No	Description	Ma ke	Model	Qty	Serial No
NS- 201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120007L, X96U150016L, X96U150018L
NS- 202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS- 203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900025
NS- 204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-80003355
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0079
NS- 207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS- 208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	3	A2EXP9A,A2EXP0A, A2EXP9V
NS- 209	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00434, KE2142DG01005
NS-210	Whiteboard Capture System Extender Mount - Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Yet to be delivered
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018045
NS- 212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	1RVDJ23
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2128LZXDMH68
NS- 214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928088, C204210928083
NS- 215	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ0P1000026
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS- 218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	DQVDJ23
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2131SY02DM8
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NRW
NS- 221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De- Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNUF
NS- 222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2EXEP7
NS- 223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS- 227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3NC
NS- 228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNYA
NS- 229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HLP8K, A2HC978, A2HC9LE, A2HC9KC
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW81A
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2F6NHV
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D25TC
NS- 233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS- 234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800298
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUX5
NS- 239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0313,A2128-0267
NS- 240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0147,A2128-0274
NS- 241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	501050854569, 602050090189

NS- 242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	2125-2126-08,2445- 2126-08,2427-2126-08
NS- 243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0123-2124-08
NS- 244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN4366,MLJAN4369, MLJAN4291,MLJAN4295, MLJAN4360,MLJAN4361
NS- 245	Front-of-House articulated array loudspeaker - Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780890, TAL780875
NS- 246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker -Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS- 247	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE8N
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004	1	Not yet supplied. XPA 1002 Using as a standby
NS- 249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5HA01B1
NS- 250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS- 251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - First Floor 50 Pax Step Seating Classroom - MLT 10					
Sl. No	Description	Make	Model	Qty	Serial No
NS-201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U150006L, X96U120027L, X96U150016L
NS-202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900099
NS-204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X- SIMPLTRACK2	1	HS2-80003367
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0054
NS-207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	4	A2FJ3DV, A2EXF20 A2EXFCD, A2EXF0P
NS-209	Whiteboard capture system with HDMI Output- Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2143WM01767, KE2142DG00951
NS-210	Whiteboard Capture System Extender Mount -Enables 8" Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018023
NS-212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	93NYTJ3
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03EP8
NS-214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928070, C204210928081
NS-215	Wooden Lectern -Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1- CX	1	1CQ00P1000046
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	J3NYTJ3
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2131SY02CY88
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NQQ
NS-221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNTD
NS-222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271- 12	1	A2EXF0P
NS-223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3LR
NS-228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2CQNY8
NS-229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9KP, A2HC97E A2HC9P4, A2HC9KV
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7XQ
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2F6NLC
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CDMKP
NS-233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800286
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2ED6UH

NS-239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0270,A2128-0325
NS-240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0212,A2128-0201
NS-241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01- HDEXEMIC-11	1	602050090197 701000204785, 701000206080
NS-242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	2442-2126-08, 0405- 2112-08, 2468-2126-08
NS-243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0106-2124-08
NS-244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN4340, MLJAN3874 MLJAN4494, MLJAN3873 MLJAN4496, MLJAN4337
NS-245	Front-of-House articulated array loudspeaker	QSC	AD-S8T	2	TAL780891,
	-Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)				TAL780884
NS-246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker -Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS-247	8 Channel Power Amplifier -Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26WTEC
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004 60-1760-01	1	A1N07E9 XPA 1002 - This is standby unit
NS-249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5GA024B
NS-250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - First Floor 50 Pax Step Seating Classroom - MLT 11					
SL No	Description	Make	Model	Qty	Serial No
NS-201	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120012L, X96U150003L, X96U120028L
NS-202	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-203	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28225650900054
NS-204	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-205	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003371
NS-206	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0055
NS-207	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-208	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	4	A2EXETM, A2FJ3M6, A2EXFAU, A2FJ3DH
NS-209	Whiteboard capture system with HDMI Output- Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KE2142DG00760, KC2143WM01726
NS-210	Whiteboard Capture System Extender Mount -Enables 8" Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-211	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018014
NS-212	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	94NYTJ3
NS-213	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2119SCF03EH8
NS-214	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928055, C204210928054
NS-215	Wooden Lectern -Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-216	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000047
NS-217	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-218	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 7070 Micro	1	74NYTJ3
NS-219	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	21313Y02CYC8
NS-220	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NPF
NS-221	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNTR
NS-222	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXFAV
NS-223	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-224	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-225	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-226	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-227	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3MT
NS-228	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2AL6MY
NS-229	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC98D, A2HC9L9, A2HC9NE, A2HC98F
NS-230	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7X9
NS-231	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2TD
NS-232	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2CM3T8
NS-233	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-234	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-235	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-236	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-237	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192400541
NS-238	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A2EJ43K
NS-239	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0350,A2128-0314

NS-240	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0368,A2128-0097
NS-241	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDEVENUM3 Y + 01- HDEXEMIC-11	1	501050854577, 701000206218, 701000206077
NS-242	2x2ft Beamforming ceiling mic - Patented 600 mm ceiling tile beamforming mic array for CONVERGE Pro 2	Clearone	BMA 360	3	2467-2126-08, 2448- 2126-08, 2135-2126-08
NS-243	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built- in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910-3200-009-D	1	0138-2124-08
NS-244	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN3863, MLJAN4171 MLJAN3937, MLJAN4173 MLJAN3864, MLJAN3950
NS-245	Front-of-House articulated array loudspeaker -Articulated Array loudspeaker 120 W, Nominal Dispersion 120° x 60° (White)	QSC	AD-S8T	2	TAL780883, TAL780877
NS-246	Wall mount bracket with Pan-and-tilt for articulated loudspeaker -Pan-and-tilt bracket for Panaray 402 Series IV (White)	QSC	X Mount	2	NA
NS-247	8 Channel Power Amplifier -Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26LJ70
NS-248	200 Watts 2 Channel Power Amplifier - Two Channel Amplifier - 200 Watts Per Channel	Extron	XPA U 1004 60-1760-01	1	A1LJ2M4 XPA 1002 - This is standby unit
NS-249	24 Port Gigabit PoE+ Network switch - 24 x 10/100 PoE+ ports with 382W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase-T/SFP+ combo + 2 x SFP+)	Netgear	GSM4328PA	1	53KE1A5LA026B
NS-250	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-251	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - Second Floor 42 Pax Hive Classroom MLT - 13					
Sl. No	Description	M	Model	Oty	Serial No
NS-253	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U130014L, X96U120025L, X96U130028L
NS-254	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-255	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28338693900053
NS-256	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-257	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-80003327
NS-258	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQ00074
NS-259	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-260	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	4	A2EXFC3, A2EXF0W, A2EXEYC, A2EXEYN
NS-261	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00540, KE2141DG04129
NS-262	Whiteboard Capture System Extender Mount -Enables 8' Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-263	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018041
NS-264	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 3090 Micro	1	F4NYTJ3
NS-265	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCF0GWY8
NS-266	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928072, C204310928071
NS-267	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-268	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1EQ00P1000008
NS-269	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-270	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 3090 Micro	1	73NYTJ3
NS-271	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	21275Y00EQA8
NS-272	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NQV
NS-273	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2ELNU2
NS-274	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXEYC
NS-275	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-276	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-277	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-278	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-279	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2EJ3M1
NS-280	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A263Q8R
NS-281	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2F99A0, A2HC9NP, A2HC9K6, A2HC9JW
NS-282	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW7X3
NS-283	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2EJ2TR
NS-284	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2D257K
NS-285	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-286	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-287	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-288	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-289	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800300
NS-290	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A24PUY6
NS-291	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0254,A2128-0276
NS-292	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0208,A2128-0093
NS-293	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUM3 Y + 01-HDEXEMIC-11	1	501050854576, 701000206228, 701000204826
NS-294	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built-in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910-3200-009-D	1	0135-2124-08
NS-295	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN4306,MLJAN4146, MLJAN4145,MLJAN3892, MLJAN3903,MLJAN4309,
NS-296	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26UE4Q

NS-297	32" 4K LCD LED Monitor - 32" Dia, Full-HD Resolution, 400 NITS, 24 x 7, VGA, HDMI & Display-Port Ports	Samsung	DCE32	7	0DV0HNBRA02427Z,0DV 0HNBRA02362V,0DV0HN BRA02439Y,0DV0HNBRA 02319J,0DV0HNBRA0169 7D,0DV0HNBRA02311Z, 0DV0HNBRA02283T
NS-298	Single Monitor Gas Spring Monitor Arm - Single Monitor Space Spacing Gas Spring Monitor Arm VESA 200x200 with C Type Clamp	Lumi	LD23-C012	7	NA
NS-299	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	7	A2128-0255, A2128- 0297, A2128-0267, 2121- 0215, A2128-0271, A2128-0296, A2128- 0260
NS-300	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	7	A2128-0239, A2128- 0223, A2121-0213, A2128-0246, A2121- 0218, A2128-0286, A2128-0268
NS-301	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	7	NA
NS-302	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	7	NA
NS-303	6-Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	F9E600zb2M- GRY	7	NA
NS-304	Under desk Mounting plate - Under desk Mounting plate	Integrator	Custom	7	NA
NS-305	Tabletop Dante Boundary Microphone Cardioid Condenser Boundary Microphone with direct Dante Network Output	Audio Technica	ATND971a/B	7	21520073,21520072, 21520079,21520067, 21520074,21520070, 21520076
NS-306	48 Port Gigabit PoE+ Network switch - 48 x 10/100 PoE+ ports with 740W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4248PX	1	6G72175NA00C5
NS-307	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-308	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Academic Block B - Second Floor 42 Pax Hive Classroom MLT - 14					
SL No	Description	Mak	Model	Qty	Serial No
NS-253	Ultra-short Throw Laser Projector - Full HD 1920x1080 resolution, 4000 Lumens, HDMI Inputs	Epson	EB-800F	3	X96U120013L, X96U110010L, X96U120018L
NS-254	Adjustable wall mount bracket for Ultra short throw projector - Adjustable Wall Mount for Epson Ultra-Short Throw Laser Displays	Epson	ELPMB62	3	NA
NS-255	65" 4K LCD LED Monitor - 65" Dia, UHD Resolution, 400 NITS, 16 x 7, HDMI & Control Ports	Christie Digital	UHD651-L	1	28668521100115
NS-256	Advanced Extension Tilt Wall Mount for 65" Display - Advanced Extension Tilt Wall Mount for 75" Display	Lumi	LP65-46T	1	NA
NS-257	High precision auto tracking camera - Presenter Auto Tracking Camera	HuddleCam	HC20X-SIMPLTRACK2	1	HS2-8003302
NS-258	F-HD HDMI PTZ Camera - HD PTZ Camera with HDMI Output 22x Zoom	Panasonic	AW-HE38HWEJ	1	E1TQJ0081
NS-259	Wall / Ceiling Mount bracket for PTZ camera - Wall / Ceiling Mount bracket for the students camera	Integrator	Custom	2	NA
NS-260	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	4	A2FJ3DF, A2EXF14, A2EXEYQ, A2EXFOH
NS-261	Whiteboard capture system with HDMI Output - Whiteboard capture system with HDMI Output	Kaptivo	Kaptivo for HDMI Room Systems	1	KC2148WM00342, KE2141DG04174
NS-262	Whiteboard Capture System Extender Mount -Enables 8" Whiteboard Capture	Kaptivo	Kaptivo Extender Mount	1	Not Yet Supplied
NS-263	PIP Creator 2x1 HDMI Multi-Viewer w/ PiP	A-NeuVideo	ANI-PIP-LITE	1	113018054
NS-264	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 3090 Micro	1	C4NYTJ3
NS-265	Wireless Keyboard & Trackpad - Wireless Keyboard & Trackpad	Logitech	K400	1	2129SCFOGGE8
NS-266	HDMI to USB Format converter - HDMI to USB 3.0 Format Converter w/ HDMI loop-thru	Magewell	32040	2	C204210928061, C204210928056
NS-267	Wooden Lectern - Should house Wacom, HDMI& USB Switcher, Mini PC, Wearable Microphones Docking/ Charging base, Touch Panel, HDMI & USB Wall Plate on the side, Foldable Shelf for Prof. Laptop,	Integrator	Custom	1	NA
NS-268	Interactive Pen display - Minimum 21" Interactive Pen display	Wacom	DTH-2452/G1-CX	1	1CQ00P1000048
NS-269	HDMI DVI Adapter - HDMI Female to DVI-D Male Adapter	CableCreation	CableCreation	2	NA
NS-270	Micro PC - i7 Processor, 16GB RAM, 1TB Hard disk drive, HDMI Output, Windows 10 Pro	Dell	OptiPlex 3090 Micro	1	C4NYTJ3
NS-271	Wireless Keyboard & Mouse - Wireless Keyboard & Mouse	Logitech	MK275	1	2128LZXGAWN8
NS-272	USB Switcher with mount kit - Four Input USB with Emulation	Extron	SW4 USB Plus 60-954-02	1	A2H7NT5
NS-273	Four Input Two Output HDMI Matrix Switcher - 4K/60 HDMI Matrix Switchers with Audio De-Embedding	Extron	DXP 42 HD 4K PLUS 60-1678-01	1	A2CX9NM
NS-274	HDMI CATx Transmitter (Box Type) DTP Transmitter for HDMI	Extron	DTP HDMI 4K 230 TX 60-1271-12	1	A2EXF14
NS-275	HDMI, USB-C & USB-A pass-thru faceplate - HDMI and USB Pass Through Wall Plate with Faceplate cover	Integrator	Custom	1	NA
NS-276	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 100 70-1028-01	1	NA
NS-277	Under Table Shelf Mount Kit, Primary - Under Table Shelf System	Extron	UTS 150 70-1028-02	1	NA
NS-278	USB Female to Female on 10" Pigtail - One USB A Female to Female on 10" Pigtail	Extron	70-455-12	1	NA
NS-279	10" Touch Control Interface - 10" Wall/ Lectern Mount TouchLink Pro Touchpanel	Extron	TLP Pro 1025M 60-1566-02	1	A2A890F
NS-280	10x8 Matrix Switcher - 10x8 Seamless 4K Scaling Presentation Matrix Switcher with built-in control processor	Extron	DTP CrossPoint 108 4K IPCP SA 60-1381-22	1	A2AL6N0
NS-281	HDMI CATx Receiver (Box Type) DTP Receiver for HDMI	Extron	DTP HDMI 4K 230 Rx 60-1271-13	4	A2HC9MT, A2HCATE, A2HC9L5, A2HC9N5
NS-282	Digital Video Recorder w/ Streaming - Streaming Media Recorder with 80GB SSD	Extron	SMP351 60-1324-01	1	A2AW83A
NS-283	1x4 HDMI Distribution Amplifier - Four Output HDMI DA	Extron	DA4 HD 4K PLUS 60-1608-01	1	A2DU4PT
NS-284	1x2 HDMI Distribution Amplifier - Two Output HDMI DA	Extron	DA2 HD 4K 60-1480-01	1	A2023FX
NS-285	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	6	NA
NS-286	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	20	NA
NS-287	6ft USB-C to HDMI Cable - USB-C male to HDMI male, 6' (1.8 m)	Extron	USBC-HDM/6 26-717-06	1	NA
NS-288	6ft USB-C Cable - USB-C, 6' (1.8 m)	Extron	USBC/6 26-715-06	1	NA
NS-289	Wireless Presentation System - Wireless Presentation System	WePresent	WiPg1000	1	WIPG1KP192800292
NS-290	10" Room Scheduling Panel - 10" Wall Mount TouchLink Scheduling Panel	Extron	TLS 1025M 60-1566-103	1	A28PKHV
NS-291	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0218, A2128-0222
NS-292	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	2	A2128-0340, A2128-0289
NS-293	Wireless Wearable Microphone Dual - Executive HD Venue Dual Channel Rack- Mounted Microphone System w/ 2 nos. of Executive HD Wearable Wireless Microphone with Clip	Revolabs	01HDVENUNM3 Y + 01-HDEXEMIC-11	1	501050854575, 701000206036, 701000206180

NS-294	12x8 DSP, 16 channel Dante I/O & AEC audio mixer w/ VOIP & POTS port - CONVERGE Pro 2 DSP Mixer with 12 mic/line inputs (AEC), 8 mic/line outputs, built-in USB audio, built-in VoIP interface for 5 lines, built- in telephone interface, and built-in Dante digital audio interface.	Clearone	CONVERGE Pro 2 128VTD 910- 3200-009-D	1	0118-2124-08
NS-295	Semi invisible ceiling speakers type 2 - Semi Invisible Ceiling Speakers 40 Watts (160W Peak), 125° conical, 8 Ω (transformer bypassed)	QSC	AD-C6T	6	MLJAN3898, MLJAN3899 MLJAN3945, MLJAN4170 MLJAN3941, MLJAN4168
NS-296	8 Channel Power Amplifier - Eight Channel Low and High Impedance Amplifiers 35 Watts Per Channel	Extron	XPA U 358 60-1759-01	1	A26LJ53
NS-297	32" 4K LCD LED Monitor - 32" Dia, Full-HD Resolution, 400 NITS, 24 x 7, VGA, HDMI & Display-Port Ports	Samsung	DCE32	7	0DV0HNBRA02416B,0DV 0HNBRA02285V,0DV0HN BRA01694W,0DV0HNBR A02292Y,0DV0HNBRA02 310Y,0DV0HNBRA02328 L, 0DV0HNBRA02329V
NS-298	Single Monitor Gas Spring Monitor Arm - Single Monitor Space Spacing Gas Spring Monitor Arm VESA 200x200 with C Type Clamp	Lumi	LD23-C012	7	NA
NS-299	1G HDMI AV over IP Encoder 4K 1Gbps HDMI Encoder (1 or more input) - in TX Mode	Aurora Multimedia	VLX-TC1-CF	7	A2121-0237, A2121- 0219, A2128-0229, A2128-0236, A2128- 0225, A2128-0224 A2128-0238
NS-300	1G HDMI AV over IP Decoder 4K 1Gbps HDMI Decoder (1 or more output) - in RX Mode	Aurora Multimedia	VLX-TC1-CF	7	A2128-0250, A2121- 0184, A2121-0141, A2128-0252, A2128- 0230, A2121-0139 A2128-0213
NS-301	3ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-3'	Extron	HDMI Ultra/3 26-663-03	7	NA
NS-302	6ft HDMI Cable - Ultra Flexible Premium High Speed HDMI Cables-6'	Extron	HDMI Ultra/6 26-663-06	7	NA
NS-303	6-Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	F9E600zb2M- GRY	7	NA
NS-304	Under desk Mounting plate - Under desk Mounting plate	Integrator	Custom	7	NA
NS-305	Tabletop Dante Boundary Microphone Cardioid Condenser Boundary Microphone with direct Dante Network Output	Audio Technica	ATND971a/B	7	21520078, 21520065, 21520068, 21520069, 21520064, 21520071, 21520080
NS-306	48 Port Gigabit PoE+ Network switch - 48 x 10/100 PoE+ ports with 740W power budget, 4 x 10 Gigabit Ethernet (2 x 10GBase- T/SFP+ combo + 2 x SFP+)	Netgear	GSM4248PX	1	6VK1245WA008E
NS-307	Equipment rack, 27U height - 27U Closed Equipment Rack with PDU, Shelf, D Nuts, Cooling Fans, Castor Wheels	UMS	27U	1	NA
NS-308	Cables, Connectors & Misc. Items - Cables, Connectors, Mounting hardware, Velcro, Bench Stickers, Tie Wraps, Misc.	Integrator	Extron / Belden / Kramer / D-Link	1	NA

Audio & Video Equipments in Classroom LT-1					
S.No.	Items Description	Model	Serial Number	Quantity	Location
1	Ultra Short Throw Projector LCD	Hitachi -CP-AW3003	F5GH00869 (Left)	3	LT-1
			F5GH00854 (Center)		
			F5DH00809 (Right)		
2	ULTRA THROW PROJECTOR WALL MOUNT	Hitachi HAS -WM03	NA	3	LT-1
3	Extron FF 220T is a full-range ceiling tile speaker for 70 volt/100 volt systems	Extron FF 220T	NA	4	LT-1
4	HD MICROPHONE,RF ARMOR WEARABLE and RACK MOUNT 2-CHANNEL(INCLUDES BASE STATION,CHARGER BASE POWER SUPPLY	Revolabs wearable Mic 03-HDEXEMICEU-11	80210000398	4	LT-1
		Revolabs wearable Mic 03-HDEXEMICEU-11	802000045785		
		Dock Station forRevolabs	501050169726		
		Revolabs Transmitter (inside rack)	602050019023		
5	USB over CATS extender- Tx (T)	Extron USB Extender Tx 60-871-62	A15XP41	2	LT-1
			A15XP40		
6	USB over CATS extender- Rx (R)	Extron USB Extender Rx 60-871-72	A1SPAUK	2	LT-1
			A1STAQD		
7	Audio Video bridge with H.264 Streaming and USB output	Vaddio AV Bridge CONFERENCE HD 999-8215-001	9988215000230150001	1	LT-1
8	8x4 Scaling Presentation Matrix Switchers with DTP Extension and Control Processor	Extron ,DTP CrossPoint 84 IPCP SA 60-1368-12	AOYPNL7	1	LT-1
9	HDMI to Four Output DTP DA	Extron ,DTP HD DA4 4K 230 60-1437-01	A16MD8A	1	LT-1
10	IP Link Pro Control Processor w/ 3 RS232 Ports	IPL Pro S3 ,60-1413-01	A11FLKL	1	LT-1
11	IP/ RS 232 controlled Power conditioner 230 volt	Furman CN 3600 SE	2849150700257	1	LT-1
12	Wireless Presentation Unit	WePreset ,WiPGIOOO	00125FOC4726	1	LT-1
13	Extron 230 DTP (Tx)	Extron DTP HDMI 230 Tx	A14QP12	2	LT-1
			A14QNR3		
14	1" Wall Mount TouchLink Pro Touchpanel	Extron ,TLP Pro 720M 60-1394-02	A151BJ4	1	LT-1
15	Panasonic 55' Inch Tv	LH-55QM1KD	184PQCCNQU01350	1	LT-1
16	Panasonic wall mount	Wall mount	NA	1	LT-1
17	18 U Custimised equipment Rack	18U AV Rack	NA	1	LT-1
18	AXIS IP Camera	IP Camera for IMPARTUS (192.168.14.8)	ACCC8E398241	1	LT-1
19	Power Spikes (Inside podium)	Frontech	NA	1	LT-1
20	Extron 230 DTP (Rx)	Extron DTP HDMI 230 Rx	A15W4YA	1	LT-1
21	Extron POE Injector	E27790	A154MVW	1	LT-1
22	Extron Two Input DTP Transmitter for HDMI and VGA with Audio Embedding Wall Plate (Inside Podium)	DTP T UWP 4K 232 D	NA	1	LT-1

Zoom Setup for LT 1 - Classroom Zoom Setep					
Sl.no	Description	Make	Model	Qty	Serial No.
1	LED Monitor - 65" 4K Resolution	LG	65UT640S	2	001KCLHLK448 001KCZPLK517
2	Dual Display Heavy Duty Trolley with Storage Space,2 Lockable Wheels, bracket to hold the camera Fit Screen Size.	Lumi	TTD07C-46TW	1	NA

3	Whiteboard Capture System with USB output One-click live whiteboard sharing Connect via Wi-Fi or Ethernet to your network.	Kaptivo	USB Room Systems	1	Share - KE1834DG00789 CAST - KC2026WM00602
4	Mobile Suction Cup Mount	Kaptivo	Kaptivo	1	NA
5	Control Pad Gang Box Mount	Kaptivo	Kaptivo	1	NA
6	USB Camera - Full HD	Clearone	Unite 50	1	0007-2014-22
7	High-quality, full-range amplified stereo soundbar	Crestron	SAROS SB-200- P-B	1	21197855
8	Desktop / Mini Desktop Computer i7 Processor, 16GB RAM, 1TB HDD, Dual Output (HDMI/DP/USBC)	Dell/ Lenevo/HP	Dell/ Lenevo/HP	1	4NYF933- 10155669951
9	Wireless Keyboard with Trackpad Connection Type: Logitech Unifying protocol (2.4GHz)	Logitech	Logitech	1	2015SCF0P448
10	Dual USB Camera to USB 3.0 Multi I/O Capture	Inogeni	Share 2U	1	SU1948024
11	Low cost 8 buttons single gang button panel 8 backlit buttons (red, green, blue, off)	Aurora Multimedia	DXB-8	1	A1817-0031
12	Interactive Pen Display 23.8-inch LCD Monitor	Wacom	DTK-2451/G1- CX	1	9EQCO91000005
13	4-Port USB 3.1 Extender System up to 100m over CAT 6a.	Icron	Raven 3104	1	IC3104L-03-F02128 IC3104R-03-F02128
14	Essential Series8 Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	Belkin	1	NA
15	Essential Series 8-Socket Surge Protector Universal Socket with 5ft Heavy Duty Cable (Grey)	Belkin	Belkin	1	NA
16	Audio DSO 6 Input, 4 Output Mixer with USB for UC application	Audio Technica	ATDM-0604	1	19510370
17	Cables, Connectors, Tie Wraps, Velcro, Mounting Accessories	Integrator	LS	1	NA

Audio & Video Equipments in Board Meeting Room					
Boardroom Assets					
S.No	Items Description	Make	Model	Serial Number	Qty
1	Ultra Short Throw Interactive Projector-4400 Lumens, WUXGA Resolution (1920x1200) w/ HDMI & VGA Inputs including OEM Wall bracket and required accessories.	EPSON	EB-1460Ui	X3JG770004L	1
2	Ultra Short Throw Projector LCD Technology - Wall bracket and required accessories.	EPSON	NA	NA	1
3	USB based PTZ Camera HD Resolution with wall Bracket	Lumens	VC-B30U	V67A03084	1
4	Mini PC	Apple	APple Mac Mini MGEM2HN/A + Wireless Keyboard & Mouse	MAC-C07WJ0S6G1HW	3
5	Logitech wireless Keyboard & Mouse	Logitech	Keyboard Mouse	K-1727SY02N32 M-1722LZX66XK	
6	USB based Conference Phone with Extension Microphones.	Revolabs	FLXUC-1500	VT4020011991 VT5010005045	2
7	Creston USB Extender	Creston	USB-EXT-2	17910423	1
8	Wireless Presentation Unit	WePresent	WiPG1000	1PG1K18020008	1
9	Creston Wallplate with Pass-Through Connectors for HDMI, Computer Video, and PC Audio - MK Junction Boxes	Creston	MP-WP152-B MP-WP130-B	NA	1
10	Creston Meeting Space Collaboration System (Pair)	Creston	HD-MD-400-C-E	17653333 17653333	1(2)
11	Bose Stereo Amplifier - 15 watts Per Channel	Bose	Free Space ZA250-LZ	6696Z73540350	1
12	Bose Speed Mount Compact Full-Range Surface Mount Speakers(pairs)	Bose	DS 16SE (White)	NA	2
13	Creston Media Link Plus Controller Keypad	Creston	MPC-M25-B-T	00107F936C59	1
14	Creston Power Injector for XTP and Pro Series Control Systems	Creston	PWE-4803RU	NA	1
15	Creston Ultra Flexible High Speed HDMI Cables-6	Creston	CBL-HD-6	NA	4
16	Creston Male to Male VGA Micro HR With Audio Cables	Creston	CBL-VGA-AUD-6	NA	2
17	Extron under Table Shelf system - Primary	Extron	UTS 100	NA	1
18	Extron under Table Shelf system - Secondary	Extron	UTS 150	NA	1
19	Creston Surface Mount Boxes for US-Gang Products	Creston	TTK-MP/MPC/IPAC	NA	1
20	Cables and Connectors Includes Audio, Speaker, Control, Microphone cables, Mounting accessories, IEC Connectors etc. "responsibility of the bidder to supply in sufficient quantities for successful completion and functioning of the systems under the scope of project"	klotz Krystals D-Link	klotz--Cat 6 STP cable Krystal Speaker Cable D-Link Cat 6 UTP Cable	NA	1
21	Sennheiser 4 set Mics	sennheiser	TC-W-CASE	1209006670	1
22	stecker 4K spiltter	4K Spiltter	stecker spiltter 4K	NA	1
23	Transportation, installation & Commissioning Charges for all the items supplied in this tender	CUSTOM	NA	NA	1
24	Wacom Monitor with pen,touch pro	wacom	DTH-2242	SECQ000030	1

Zoom Setup for Boardroom - Ground Floor					
Sl. No.	Description	Make	Model	Qty	Serial No.
1	LED Monitor - 65" 4K Resolution,	LG	65UT640S	2	001KCNCL
2	Dual Display Heavy Duty Trolley with Storage Space,2 Lockable Wheels,	Lumi	TTD07C-46TW	1	NA
3	Whiteboard Capture Svstem with USB outout One-click live whiteboard sharing Connect via Wi-Fi or Ethernet to your network	Kaptivo	USB Room Systems	1	Share-
4	Mobile Suction Cup Mount	Kaptivo	Kaptivo	1	NA
5	Control Pad Gang Box Mount	Kaptivo	Kaptivo	1	NA
6	USB Camera - Full HD, 120 Degree FOV, EPTZ,	Clearone	Unite 50	1	0056-2014-
7	High-quality, full-range amplified stereo soundbar	Creston	SAROS SB-200- P-B	1	21197862
8	Array Microphone with 3.5mm & USB Output	Acoustic Magic	Voice Tracker II Array Microphone	1	76584
9	Desktop / Mini Desktop Computer.i7 Processor, 16GB RAM, 1TB HDD, Dual Output (HDMI/DP/USBC)	Dell/	Dell/ Lenevo/HP	1	1LYF933-
10	Wireless Keyboard with Trackpad.Connection Type: Logitech Unifvine protocol (2.4GHz)	Logitech	Logitech	1	2015SCFO
11	Dual USB Camera to USB 3.0 Multi I/O Capture	Inogeni	Share 2U	1	SU1939058
12	Low cost 8 buttons single gang button panel 8 backlit buttons (red, green, blue, off)	Aurora	DXB-8	1	A1817-0034
13	Interactive Pen Display 23.8-inch LCD panel	Wacom	DTK-2451/G1-CX	1	9EQ000N100
14	4-Port USB 3.1 Extender System up to 100m over CAT 6a.	Icron	Raven 3104	1	IC3104R-03-
15	Essential Series8 Socket Surge Protector Universal	Belkin	Belkin	1	NA
16	Essential Series 8-Socket Surge Protector Universal Socket with 5ft Heavy Duty Cable (Grey)	Belkin	Belkin	1	NA
17	Cables, Connectors, Tie Wraps, Velcro, Mounting Accessories	Integrator	LS	1	NA

Audio & Video Equipments in Classroom LT-2				
S.No.	Items Description	Model	SerialNumber	Quantity
1	Ultra Short Throw Projector LCD Technology - 3300 Lumens, WXGA Resolution,(1280x800) w/ HDMI & VGA Inputs	Hitachi CP-AW3003	F5JH00269 (Center) F5JH00266 (Right) F5JH00263 (Left)	3
2	Ultra Short Throw Projector Wall Mount bracket	Hitachi HAS-WM03	NA	3
3	HD MICROPHONE,RF ARMOR WEARABLE and RACK MOUNT 2-CHANNEL(INCLUDES BASE STATION,CHARGER BASE POWER SUPPLY	Revolabs wearable Mic 03-HDEXEMICEU-11 Revolabs wearable Mic 03-HDEXEMICEU-11 Dock Station forRevolabs Revolabs Transmitter (inside rack)	802000059457 802000062039 501050236388 602200020727	4
4	Beamforming & adaptive steering microphone	Clearone BFM 910-001-003	8127-1615-06 8131-1615-06 7782-1615-06	3
5	4 channel AEC microphone mixer with 4 Line Inputs and 8 Line outputs w/ built in telephone hybrid.	Clearone ConvergePro 840T 910-151-840	8141-1615-06	1
6	Four Channel Amplifier - 200 Watts Per Channel	Extron XPA 2004 60-563-02	A196F7W	1
7	Cisco SX80 Codec Precision 60 Cam Touch 10	Cisco CTS-SX80-IP60-K9	FOC2017NHRS	1
8	Cisco Telepresence Precision 60 Camera	Cisco CTS-CAM-P60	FTT20220018V-Left FTT2022005M-Right	3
9	Cisco Telepresence Precision 60 Camera -auto expand only	Cisco CTS-CAM-P60+	FTT202201NJ-Centre	1
10	Cisco SX80 Codec	Cisco CTS-SX80CODEC	FTT202002TS	1
11	HDMI Twisted Pair Receiver	Extron DTP HDMI 4K 230 Rx 60-1271-13	A18P7JX A18P6D8 (TV BACK) A18P6D9 A18P5KR	4
12	8x4 Seamless 4K Scaling Presentation Matrix Switcher with DTP Extension and Control Processor	Extron DTP CrossPoint 84 4K IPCP SA 60-1515-12	A1CQE46	1
13	HDMI to Four Output DTP DA Distribution Amplifier	Extron DTP HD DA4 4K 230 60-1437-01	A19NAPJ	1
14	1" Wall Mount TouchLink Pro Touchpanel	Extron ,TLP Pro 720M 60-1394-02	A1AE9WU	1
15	IP Link Pro Control Processor w/ 3 RS232 Ports	Extron IPL Pro S3 60-1413-01	A1D21EM	1
16	Eight Contact and Eight Relays	Extron IPL Pro CR88, 60-1416-01	A1A9HQ8 A1A9HMA A1A9HN3	3
17	Multiple Output 12 Volt DC Power Supply	Extron ,PS124 60-1022-01 (2)	A19409M A19TQX5	2
18	IP/ RS 232 controlled Power conditioner 230 volt	Furman CN 3600 SE	2849153200260	1
19	Wireless Presentation Unit	WePreset WiPGIOOO	WIPG1KS16110158	1
20	AXIS IP Camera	IP Camera for IMPARTUS (192.168.14.2)	ACC8E297B87	1
23	LG Monitor - 55 wall bracket and required accessories.	NA	LG Wall Mount	1
21	LG Confidence Monitor - 55 Diagonal Professional Grade Display with RS-232 Port including wall bracket and required accessories.	LG SSSE3KB	604KCQX5U604	1
22	Extron FF 220T is a full-range ceiling tile speaker for 70 volt/100 volt systems	Extron FF 220T	Pending Pending Pending Pending Pending Pending	6
17	18 U Custimised equipment Rack	18U AV Rack	NA	1
	Extron POE Injector (Inside Podium)	E27790	A1SQAPM	1
	Extron Two Input DTP Transmitter for HDMI and VGA with Audio Embedding Wall Plate (Inside Podium)	DTP T UWP 4K 232 D	NA	1

Audio & Video Equipments in Classroom LT-3					
60 Seater ClassRoom					
S.No.	Items Description	Make	Model	Qty	SerialNumber
1	Ultra Short Throw Projector LCD Technology - 3500 Lumens, WXGA Resolution (1280x800) w/ HDMI & VGA Inputs including OEM Wall bracket and required accessories.	EPSON	EB-675Wi	2	X2A78400102 (Right) X2A78400004 (Left)
2	Ultra Short Throw Projector LCD Technology - Wall bracket and required accessories.	EPSON	Epson Wall Brackets	2	Right NA Left NA
3	Confidence Monitor - 55 Diagonal Professional Grade Display with RS-232 Port including wall bracket and required accessories.	LG	LG-55SE3KB	1	706PMVP034487
4	Confidence Monitor - 55" wall bracket and required accessories.	LG	NA	1	NA
5	Four Channel Amplifier - 200 Watts Per Channel	Crown	GDCI4X300-U-IN	1	150262585774
6	Full-Range Flat Field Speaker	Kramer	SPK C800-PRO (SPK-C812)	6	NA
7	16 Port Network Switch	D-Link	DGS-1210-10P	1	33402HB002351
8	8 Channel AEC microphone mixer.	Crestron	DSP 1282	1	17026434
9	Two USB A Female to Two USB A Female on 10 "Pigtails- Table Plate to be mounted on the Lectern	Kramer	WU-AA Series	1	NA
10	USB Patch Cables 2Mtrs.	Chetan	NA	2	NA
11	Male to Male VGA Micro HR with Audio Cables	Crestron	CBL-VGA-AUD-6	2	NA
12	DTP Transmitter for MK Junction Boxes	Crestron	DM-TX-4K-100-C-1G-B-T+FP-G1-I	3	16722318 16723334
13	Two Input DTP Transmitter for HDMI and VGA with Audio	Crestron	DM-TX-4K-201-C	1	17864018
14	8*4 Seamless 4k Scaling Presentation Matrix Switcher.	Crestron	DMPS3-4K-350-C	1	1813JBH11012 17226378
15	DTP Receiver for HDMI Decorator-Style Wallplate	Crestron	DM-RMC-4K-100-C-1G	3	17226371 17225516
16	7" Wall Mount Touchlink Pro Touchpanel	Crestron	TSW-760-B-S+MSMK-4SM-B-S	1	NA
17	Power Injector for XTP and Pro Series Control Systems	Crestron	PWE-4803RU	1	NA
18	IP Link Pro Control Processor w/3 RS232 Ports	Crestron	CP-3	1	18185774
19	Ultra Flexible High Speed HDMI Cables-6	Crestron	CBL-HD-6	12	NA
20	Micro Tower - Intel® Core i5-7400 with Intel® HD Graphics 630 (3.0 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores) Internal drive 1TB 7200 rpm SATA 16GBNVMe Intel® Optane Memory for storage acceleration, Intel® HD Graphics 630 Lenovo USB Business Slim keyboard Lenovo USB Hardened Mouse Windows 10 Pro64	Lenovo	V520 Tower 10NLA01KIG	1	PG018BKW
21	IP controlled Power conditioner 230 volt	APC	AP7921B	1	5A1808E06191
22	Wireless Presentation Unit	WePresent	WiPG1000	1	WIPG1KP180200098
23	18U Customised Closed Equipment rack	custom	custom 18U	1	NA
24	Cables and Connectors Includes Audio, Speaker, Control, Microphone cables, Mounting	klotz	klotz--Cat 6 STP cable	1	NA
25	accessories, IEC Connectors etc. "responsibility of the bidder to supply in sufficient quantities for successful completion and functioning of the systems under the scope of project"	Krystals, D-Link	Krystal Speaker cable D-Link Cat 6 UTP cable	1	NA
26	HD Microphone, RF-Amor wearable and Rack mount 2-channel, XLR/ 1/4" I/O, w/o mics (Includes Base Station, Charger Base, Power Supply)Antenna Extension Kit for 4-channel Solo Executive / Executive HD/HD Venue.	Revolabs	wearable 03-HDEXEMICEU-11 wearable 03-HDEXEMICEU-11 Revolabs Dock Station 01-ANTEXEC4-KIT	4	602050082090 802000059269 802000059338 6022000280064
27	21.5" IPS Pen display HD resolution Combines multi-finger touch capability with Wacom's patented, cordless. Battery free pen technology.	Wacom	DTH-2452	1	7LQ00P1000409
28	Transportation, Installation, testing & commissioning charges for all items.	custom	CUSTOM	1	NA
29	Wallplate with Pass-Through Connectors for HDMI, Computer Video, and PC Audio - MK Junction Boxes	Crestron	MP-WP152-B MP-WP130-B	NA	1

Audio & Video Equipments at MLT-1

S.No.	Item Name	Make & Model	Serial Number	Quantity
1	MX 800 Cisco Device	cisco Telepresence MX 800 Speaker	FTT192803Q7	1
2	cisco MX800 microphones	CTS-Mic-TABL60-1	19141991	7
		CTS-Mic-TABL60-2	19141845	
		CTS-Mic-TABL60-3	19141889	
		CTS-Mic-TABL60-4	19141878	
		CTS-Mic-TABL60-5	19141766	
		CTS-Mic-TABL60-6	19141767	
		CTS-Mic-TABL60-7	19141881	
3	Cisco Touch Panel	Cisco Touch 10 Inch Pad	DA00518	1

Audio & Video Equipments in Classroom MLT-2					
S.No.	Items Description	Model	Serial Number	Quantity	SID
1	Ultra Short Throw Projector LCD	Hitachi -CP-AW3005	F5JH00236	1	MTL-2
2	ULTRA THROW PROJECTOR WALL MOUNT	Hitachi-HAS WM03	NA	1	MTL-2
3	Revolabs HD MICROPHONE,RF ARMOR WEARABLE	Revolabs Wearable 03-HDEXEMICEU-11	802000059330	4	MTL-2
		Revolabs Wearable 03-HDEXEMICEU-11	802000064156		
		Revolabs,HD Venue-NM	602200020726		
		Dock Station	501050236389		
4	8x2 Seamless 4K Scaling Presentation Matrix Switcher with DTP Extension and Control Processor	DTP Crosspoint 82 4k IPCP SA 601583-12	A1C3731	1	MTL-2
5	Two Channel Amplifier- 200 Watts Per Channel	Extron, XPA 2002-70V 60-883-02	AI AHYUM	1	MTL-2
6	IP/ RS 232 controlled Power conditioner 230 volt	Furman CN 3600 SE	02849153200259	1	MTL-2
7	Wireless Presentation Unit	WePreset WiPGIOOO	WIPG1 KS16110160	1	MTL-2
8	SpeedMount Two-Way Surface Mount Speakers with 811 Woofer(Pairs)	Extron SM - 28 T 60-1309-13	A18XMPY	2	MTL-2
			A18XMQQ		
9	Wall Mount TouchLink Pro Touchpanel	Extron TLP Pro 720M	A14JVHM	1	MTL-2
10	AXIS IP Camera	IP Camera for IMPARTUS (192.168.14.9)	ACCC8E39625F	1	MTL-2(LT-1)
11	12 U Customised equipment Rack	12U AV Rack	NA	1	MTL-2
12	Extron Two Input DTP Transmitter for HDMI and VGA with Audio Embedding Wall Plate (Outside Podium)	DTP T UWP 4K 232 D	NA	1	MTL-2

Zoom Setup for MLT-02 - Classroom - First Floor					
Sl. No.	Description	Make	Model	Qty	Serial No.
1	LED Monitor - 65" 4K Resolution	LG	65UT640S	2	001KCZPLK421 001KCUKQC390
2	Dual Display Heavy Duty Trolley with Storage Space,	Lumi	TTD07C-46TW	1	NA
3	Whiteboard Capture System with USB output One-click live whiteboard sharing Connect	Kaptivo	USB Room Systems	1	Share- KE1834DG00963 CAST- KC2026WM00510
4	Mobile Suction Cup Mount	Kaptivo	Kaptivo	1	NA
5	Control Pad Gang Box Mount	Kaptivo	Kaptivo	1	NA
6	USB Camera - Full HD, 120 Degree FOV, EPTZ	Clearone	Unite 50	1	0168-2014-22
7	High-quality, full-range amplified stereo sound bar	Crestron	SAROS SB-200- P-B	1	2119344
8	Desktop / Mini Desktop Computer i7 Processor, 16GB RAM, 1TB HDD	Dell/ Lenevo/HP	Dell/ Lenevo/HP	1	DMYF933- 29686244799
9	Wireless Keyboard with Trackpad	Logitech	Logitech	1	2013SCF073D8
10	Dual USB Camera to USB 3.0 Multi I/O Windows, Mac OSX and Linux	Inogeni	Share 2U	1	SU1948016

Audio & Video Equipments in Classroom beside MLT-3					
S.No	Items Description	Make	Model	SerialNumber	Qty
1	Ultra Short Throw Projector LCD Technology - 3500 Lumens, WXGA Resolution (1280x800) w/ HDMI & VGA Inputs including OEM Wall bracket and required accessories.	EPSON	EB-675Wi	X2A78400002	1
2	Ultra Short Throw Projector LCD Technology - Wall bracket and required accessories.	EPSON	Check the stands	NA	1
3	Two Channel Amplifier - 200 Watts Per Channel	Crown	GDCL2X300-U-IN	PENDING	1
4	Two-Way Surface Mount Speakers with 8" Woofer	JBL	Control 28-1	PENDING	2
5	8 Channel AEC microphone mixer with 4 line Inputs and 8 Line outputs w/built in USB Interface	Crestron	DSP 1282	PENDING	1
6	Two USB A Female to Two USB A Female on 10" Pigtails- Table Plate to be mounted on the Lectern	Kramer	WU-AA Series	PENDING	1
7	USB Patch Cables 2Mtrs.	Chetan	NA	NA	2
8	Male to Male VGA Micro HR with Audio Cables	Crestron	CBL-VGA-AUD-6	NA	2
9	Two Input DTP Transmitter for HDMI and VGA	Crestron	DM-TX-4K-201-C	16940226	1
10	8*2 Seamless 4k Scaling Presentation Matrix Switcher	Crestron	DMP53-4K-200-C	PENDING	1
11	DTP Receiver for HDMI Decorator-Style Wallplate	Crestron	M-TX-4K-100-C-1G-B-T+FP-G1-B	17226312	1
12	7" wall Mount Touchlink Pro Touchpanel	Crestron	TSW-760-B-S+MSMK-4SM-B-S	NA	1
13	Power Injector for XTP and Pro Series Control Systems	Crestron	PWE-4803RU	NA	1
14	Ultra Flexible High Speed HDMI Cables-6	Crestron	CBL-HD-6	NA	4
15	Micro Tower - Intel® Core i5-7400 with Intel® HD Graphics 630 (3.0 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores), Internal drive	Lenovo	V520 Tower 10NLA01KIG + Monitor 27" Dell 7218HN	PG0187YB	1
16	Revolabs HD MICROPHONE, RF ARMOR WEARABLE	Revolabs Wearable Revolabs Wearable Revolabs Wearable Dock Station Revolabs Wearable Trans	Revolabs Mics Revolabs Mics Revolabs Dockstation (inside rack) Revolabs transmitter (inside rack)	802000059332 802000064182 501052250269 602050082052	4
17	IP controlled Power conditioner 230 volt	APC	SPK C800-PRO (SPK-C812)	PENDING	1
18	Wireless Presentation Unit	WePresent	WiPG1000	PG1KP1802000	1
19	12U Customised Equipment rack	custom	Custom Rack 12U	NA	1
20	Cables and Connectors Includes Audio, Speaker, Control, Microphone cables, Mounting accessories, IEC Connectors etc. *responsibility of the bidder to supply in sufficient quantities for successful completion and functioning of the systems under the scope of project	klotz Krystals D-Link	klotz--Cat 6 STP cable Krystal Speaker Cable D-Link Cat 6 UTP Cable	NA	1
21	Wallplate with Pass-Through Connectors for HDMI, Computer Video, and PC Audio - MK Junction Boxes	Crestron	MP-WP152-B MP-WP130-B	NA	1

Zoom Setup for MLT-03 - Classroom - First Floor					
S.No	Description	Make	Model	Qty	Serial No.
1	LED Monitor - 65" 4K Resolution,	LG	65UT640S	2	001KCEAQC388 001KCRNLK510
2	Dual Display Heavy Duty Trolley with Storage Space	Lumi	TTD07C-46TW	1	NA
3	Whiteboard Capture System with USB output One-click live whiteboard sharing Connect	Kaptivo	USB Room Systems	1	Share- KE1834DG00857 CAST- KC2026WM00480
4	Mobile Suction Cup Mount	Kaptivo	Kaptivo	1	NA
	Control Pad Gang Box Mount	Kaptivo	Kaptivo	1	NA
5	USB Camera - Full HD, 120 Degree FOV, EPTZ, Digital Zoom	Clearone	Unite 50	1	0059-2100-006
6	High-quality, full-range amplified stereo soundbar	Crestron	SAROS SB-200- P-B	1	21779343
7	Desktop / Mini Desktop Computer i7 Processor, 16GB RAM, 1TB HDD, Dual Output	Dell/ Lenevo/HP	Dell/ Lenevo/HP	1	CKYP933- 27388530111
8	Wireless Keyboard with Trackpad Connection Type: Logitech Unifying	Logitech	Logitech	1	2015SCF0RFG8
9	Dual USB Camera to USB 3.0 Multi I/O Capture Mixer feature: Hardware mixer into a single USB	Inogeni	Share 2U	1	SU2029022
10	Low cost 8 buttons single gang button panel 8 backlit buttons (red, green, blue, off)	Aurora Multimedia	DXB-8	1	A535-0548
11	Interactive Pen Display 23.8-inch LCD panel	Wacom	DTK-2451/G1- CX	1	9EQ00NI000025
12	4-Port USB 3.1 Extender System up to 100m over CAT 6a.	Icron	Raven 3104	1	IC3104L-03-F02098 IC3104L-03-F02098
13	Essential Series 8 Socket Surge Protector Universal Socket with 6.5ft Heavy Duty Cable (Grey)	Belkin	Belkin	1	NA
14	Essential Series 8-Socket Surge Protector Universal Socket with 5ft Heavy Duty Cable (Grey)	Belkin	Belkin	1	NA
15	Audio DSO 6 Input, 4 Output Mixer with USB for UC application	Audio Technica	ATDM-0604	1	19510380
1	Cables, Connectors, Tie Wraps, Velcro, Mounting Accessories	Integrator	LS	1	NA

Virtual Classroom - Meeting Room-1					
S.No	ITEM DESCRIPTION	Make&Model	S.No	QTY	Location
1	Intel NUC Business Box	NUC	G6BE91500KG	1	Meeting Room-1
2	Sennheiser 4 set Mics	Sennheiser Set	1209006670	1 SET	Meeting Room-1(BoardRoom)
3	Logitech Rally camera	Logitech	1829LZ03W54M	1	Meeting Room-1
4	Apple iPad WIFI + Cellular 128GB(Space Grey)	Apple	F9FYM367JF89	1	Kamal Sir
5	WACOM DTH 1152 PAD	Wacom DTH	8DQ00E1000149	1	Computer Center
6	LG 49CC 640C TV	LG	903PLKW061109	1	Meeting Room-1
7	LG 49CC 640C TV	LG	903PLUH061110	1	Meeting Room-1
8	Logitech Mouse & Keyboard	Logitech	1852LZX2PL08	1	Meeting Room-1
9	wacom DTH -2242(Touch- Monitor)	Wacom 2242	SECQ000030	1	meeting Room-1
10	Logitech K400+ Keyboard (New)		2015SCF0R569	1	Computer Center
	stecker 4K spiltter	Stecker 4K		1	Meeting Room-1(BoardRoom)
11	USB based Conference Phone with Extension Microphones.	Revolabs 1500	VT5010005045	1	Meeting Room-1(BoardRoom)
12	Sennheiser 1 Battery	Sennheiser Bettary	506681(515)	1	Meeting Room-1(BoardRoom)