

**NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION
TECHNOLOGY, CALICUT**

(An Autonomous Scientific Society of Department of Electronics and Information Technology,
Ministry of Communications & Information Technology, Government of India)

P.B. No. 5, P.O. NIT CAMPUS, CALICUT-673 601, KERALA

Phone: 0495-2287266

Email: purchase@calicut.nielit.in; Web: www.nielit.gov.in/calicut

GST No. **32AAATD0315M1Z6**

No. 2(1235)/2021-22/STED/e-STUDIO

12.07.2021

To

Dear Sir(s):

Sub: Limited Tender enquiry for Setting up and commissioning of e-Learning delivery, recording/editing facility (e-Studio) : Reg.

On behalf of Executive Director, National Institute of Electronics and information Technology (NIELIT) Calicut, invites limited Tender under **Two Bid System** (Technical Bid & Commercial Bid) for the Setting up and commissioning of e-Learning delivery recording/editing facility (e-Studio) at NIELIT Calicut as per the Technical specifications and scope of work mentioned in the Tender documents.

If you are in a position to quote for the services strictly conforming to the Instructions, Terms and Conditions and in accordance with the requirements detailed in the tender documents, please submit your Tender in two parts, i.e., Annexure-I containing the Technical Bid and Annexure-II being the Price Bid separately in two sealed envelopes, exactly as detailed in the enclosed General Instructions.

Please read carefully the Instructions, Terms and Conditions given in the Tender Documents before submitting your tender.

Thanking you,

Yours faithfully,



Joint Director & Purchase In-charge



**NATIONAL INSTITUTE OF ELECTRONICS & INFORMATION
TECHNOLOGY (NIELIT), CALICUT**

(An Autonomous Scientific Society of Ministry of Electronics & Information Technology, Government of India)
NIT CAMPUS POST, CALICUT – 673 601

Website: www.nielit.gov.in/calicut

Phone: 0495-2287266

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Tender for

Setting up and commissioning of e-Learning delivery, recording/editing facility(e-Studio)

Tender No: 2(1235)/2021-22/STED/e-STUDIO

Opening Date: 04/08/2021 (14.00 hrs.)

Last Date of Bid Submission: 02/08/2021 (17.00 hrs.)

Fact Sheet for the Tender

Bid Reference	2(1235)/2021-22/STED/E-STUDIO Date: 12/07/2021
Purpose	Setting up and commissioning of e-Learning delivery, recording/editing facility (e-Studio) (Professional equipments with installations, integration, demonstration & training)
Availability of Tender Documents	ONLY DOWNLOADED FORM IS ALLOWED and the Tender document is available from 13/07/2021 on NIELIT Calicut website www.nielit.gov.in/calicut
Earnest Money Deposit	Undertaking as per Annexure-I to be submitted
Opening Date of inviting Bids	13/08/2021 : 09:00 hours
Last Date of Receiving of Bids	02/08/2021 : 17:00 hours. Late tenders will not be considered.
Date and time of opening of Technical Bids	04/08/2021: 14:00 hours at NIELIT Calicut. Bidders are requested to be present in bid opening process.
Bid Validity	60 days from the last date of submission.
Address for submission of Bids	Tender should be in a sealed envelope duly superscribed with due mention of name of item, Tender enquiry No. and date & time of opening of Tender and same to be sent by registered post /courier to below address. The bid can also be dropped in the Tender Box kept in the Administration Department and addressed to: EXECUTIVE DIRECTOR NIELIT NIT CAMPUS POST CALICUT – 673601 KERALA
Date and Time of opening of Financial bids	Technically qualified bidders will be intimated the same through email provided in the Tender documents
Contact Details	Joint Director & Purchase In-charge NIELIT, NIT Campus Post, Calicut-673601. Phone: 0495-2287266 Ext.201/207.

Sealed tenders complete in all respect as per the instructions given herein are invited from reputed & experienced suppliers/service providers to supply the following

1. Setting up and commissioning of E-Learning delivery recording/editing facility(e-Studio) (Professional equipments with installations, integration, demonstration & training)

The detailed information regarding scope of work and Terms and Conditions is given in the Tender Documents which may be downloaded from the website www.nielit.gov.in/calicut as mentioned in the Fact Sheet.

Scope of Work:

Setting up and commissioning of e-Learning delivery, recording/editing facility(e-Studio) (Professional equipment with installations, integration, demonstration & training) **at NIELIT, NIT Campus Post, Calicut, Kerala.**

Terms and conditions:

A. GENERAL

1. The Tender response should be valid for 60 days from the last date of submission of bid.
2. The Bidder should adhere with all seriousness to the time schedule provided by NIELIT CALICUT.
3. Branded items quoted by the bidders should be enclosed with the valid authorization certificates from OEM.
4. All items are to be delivered **at NIELIT CALICUT, NIT CAMPUS POST, CALICUT – 673601, KERALA** at their own cost and responsibility of the vender.
5. The Bidder should provide the client list along with respective addresses and phone number where similar services have been / are being rendered by the bidder. Bidder may have to arrange a visit to client site for verification of facts by officers of NIELIT, Calicut, if required.
6. The bidders are required to send two separate envelopes for the above said items – as described below under 2 bid system.

a) Envelope 1 - Containing the Technical bid with a covering letter addressed to Executive Director, NIELIT, Calicut in the prescribed format (Annexure-I Part A to D) along with the following

1. Undertaking for Earnest Money Deposit (EMD)
2. OEM Authorization Certificate (Details in Point No. 3, General Section),
3. Client List. (Details in Point No.5, General Section),
4. Self-declaration stating that they are not Black Listed (Details in Point No.8, General Section)
5. Experience Certificate (Details in Point No.16, General Section).

b) Envelope 2 – Containing the Financial bid with a covering letter addressed to Executive Director, NIELIT, Calicut as prescribed in the Annexure- II with detailed price bid details

Both the envelopes should be sealed and superscribed in bold letters as mentioned below:

Envelope-1:

Technical Bid for Setting up and commissioning of E-Learning delivery recording/editing facility(e-Studio (Professional equipments with installations, integration, demonstration & training)

Envelope-2:

Financial Bid for Setting up and commissioning of E-Learning delivery recording/editing facility(e-Studio) (Professional equipments with installations, integration, demonstration & training)

Finally the above mentioned two envelopes **should be enclosed and sealed in one bigger envelope superscribed as “Setting up and commissioning of e-Learning delivery, recording/editing facility(e-Studio)”** along with Tender number and due date. While opening the Tenders, the envelopes containing Technical bid shall be opened first and acceptance of the tender according to the specified clause will be ascertained. The Technical bid should contain only technical details along with the particulars required in the Tender document and should not contain any commercial terms and conditions other than mentioned by NIELIT, CALICUT. **The Financial Bid should not contain anything other than as specified in Annexure-II.**

Financial Bid of only those bidders shall be opened which are found technically acceptable for further evaluation and ranking before awarding the contract.

NOTE: TENDERS SUBMITTED WITHOUT ABOVE TWO BID SYSTEM PROCEDURE WILL BE SUMMARILY REJECTED.

7. Sealed Tenders, complete in all respects should reach Executive Director, NIELIT, Calicut, NIT campus Post, Calicut – 673601, Kerala by the stipulated date and time as mentioned in the Fact Sheet. Tenders must be dropped in the Tender Box kept in the Administration Section at the aforesaid address. All the relevant information about the due date, opening date of Technical Bids and Financial Bids, contact persons for further query etc. are mentioned in the Fact Sheet. The tenders received late including postal delays shall not be considered and no correspondence in this regard shall be entertained. Incomplete Tenders will be rejected.
8. Bidders who are blacklisted or debarred from participating in any such Tender in any State / Central Government / PSU / Autonomous body are not allowed to participate in the Tender. Bidders have to give self-declarations in this respect as per Annexure-I (Technical Bid part C) that they are not blacklisted as mentioned above and if under any circumstances the declarations are found false their bids will be out rightly rejected and EMD will be forfeited.
9. NIELIT, Calicut reserves the right to reject any or all Tender(s) without assigning any reason at any stage. Any conditional tendering other than mentioned in this Tender will be liable for rejection.
10. The Bidder(s) should mention the place with address from where support would be offered.
11. All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the sole arbitrator to be appointed by the Executive Director, NIELIT, Calicut.
12. In all matters and disputes arising hereunder, the appropriate Courts in Calicut alone shall have jurisdiction to entertain and try them under Indian Law.
13. Queries, if any, raised by NIELIT, Calicut should be answered by the prescribed date. In case of no reply, bid may be cancelled.
14. All pages of this Tender document must be signed and stamped. Any overwriting or use of white ink will not be accepted. All columns of the Tender documents must be duly filled in and no column should be kept blank. NIELIT, Calicut reserves the right to reject. Tender submitted in case of incomplete Tenders or in case where information submitted/furnished is found incorrect. **No Tender will be accepted by fax, email or any other such means.**

15. In case the space in the Tender document is found insufficient, the bidders may attach separate sheets keeping the format intact. There should not be any deviation in terms and conditions as have been stipulated in the Tender documents.
16. Bidder should have the credentials to serve in State / Central Government / PSU / Autonomous body in similar Information Technology related services.
17. If the last date of submission of bid happens to be a holiday, then the next working day will be the last date of submission of bid. Bids will be opened at the same time as mentioned earlier on the same day. Bidders are being informed to remain present in bid opening process.

B. TECHNICAL

18. All the software packages being procured through this Tender along with free software being provided by the bidder / manufacturer must be supplied in softcopy (may be in the form of CD"s/ DVD"s). Also the relevant manuals are to be supplied in Softcopy. Hardcopy of manuals/instructions, wherever available, must be supplied additionally.
19. Bidder will be responsible for installation and configuration of all hardware and software items as per requirement of client. No additional cost shall be provided to bidder for such service.
20. NIELIT, Calicut / client will conduct acceptance test(s) on the item(s) ordered. If the item(s) supplied fail in the test(s), the same may be rejected.
21. NIELIT, Calicut, reserves the right to reject all or any item, if supplied materials are found in defective condition or in broken package at the time of installation. The bidder must successfully install the Computers / Server and make them functioning within 7 days of delivery.
22. **Bidder(s) should specify in the Technical bid, Make and Model No. along with exact specifications / configurations offered for each item in Annexure-I (Part B) enclosed.**
23. Any deviation from this specification / configuration may not be allowed during the actual supply, otherwise the Order will be cancelled. Latest professional version of software is required to be supplied. Bidder(s) will also be required to enclose printed brochure of the products quoted along with the Technical Bid.

24. Bidder(s) will be responsible for comprehensive support at the time of installation of the equipments without any additional charges.
25. Comprehensive warranty for all supplied equipments will be for three years and will cover replacement of all defective parts / equipment.
26. Bidder(s) should also give preventive support schedule for the systems, software, etc. No additional charge for this will be payable during warranty period.
27. Bidder(s) should have satisfactory arrangement to receive complaints and provide support to clients in Calicut, Kerala for which one authorized person would be identified by the vendor and intimated to NIELIT Calicut along with name, designation, contact phone number, email address etc.
28. The company should ensure quick response in case of equipment / service failure within a maximum time of 48 hours from filing the complaint by the user / NIELIT Calicut.
29. The Technical Specification must be as per the format provided in Annexure-I (Part B).
30. Bidders are advised to make a site visit to assess the identified location of installation, before quoting the item.

C. FINANCIAL

31. The lowest (L1) bidder will be selected from technically qualified bids based on the consolidated minimum total price quoted for the work and supply of required items. However the Authority may apply its discretionary power to take decision in this regard.
32. **Bidder has to quote in Annexure-II for the specifications provided in Annexure-I (Part –B)**
33. The Executive Director, NIELIT, Calicut reserves the right to accept any tender or to reject any or all tenders at any stage at his sole discretion without assigning any reasons thereof. The Executive Director, NIELIT, Calicut is not bound to accept the lowest bidder. No conditional tendering will be accepted.
34. Bids are to be quoted in Indian Rupees only.

35. Discount, if any, should also be mentioned in the price bid. Total price of the goods should be clearly indicated. Excise Gate Pass, if applicable, to be prepared in the name of 'NIELIT, Calicut' which is to be delivered in duplicate with Delivery Challan. We will not issue any Form like C, F etc. or Road Challan, Way-Bill.
36. The equipments and materials ordered must be delivered and installed within 3 Weeks at Site (i.e. NIELIT Calicut, Kerala) from the date of acceptance of the Purchase Order. In case delivery is not completed within Three weeks from the date of acceptance of the Purchase Order or Purchase Order is not accepted within 5 (Five) working days of issuance of Purchase Order, NIELIT, Calicut may cancel the Purchase Order.
37. The successful bidder should submit performance security @ 03% of the Purchase Order / contract value in the form of NEFT /Bank Guarantee of any of the Nationalized Bank in favour of "Director, NIELIT Calicut" payable at SBI, NITC Branch, Calicut within 15 days from the acceptance of the Purchase Order, which remains valid upto 60 days beyond the date of completion of all contractual obligations of the firm / company. No interest shall be payable on SD.
38. Copy of PAN, GST Registration No. and Bank details (Account No. with IFSC Code, Name of Account holder, etc.) must be submitted.
39. **The supplied goods should have comprehensive warranty at the site i.e. NIELIT Calicut, Kerala**

FOR SIGNATURE

ANNEXURE - I

Letter Format in Company's letter Head (Technical Bid)

To

The Executive Director
National Institute of Electronics and Information Technology (NIELIT),
P. B. No. 5, NIT Campus Post
Calicut- 673601
Kerala, India

Sir,

In response to the Tender Number **2(1235)/2021-22/STED/e-STUDIO** dated **12/07/2021**, we are submitting the Technical Bid herewith for your kind consideration.

Thanking you,

Name & signature of Authorized Signatory:

Seal of the Organization:

Date:

Place:

ANNEXURE-I Technical Bid (Part-A)

PLEASE COMPLETE THE FORM AND ENCLOSE NECESSARY DOCUMENTS WHERE REQUIRED OTHERWISE THE TENDER WILL BE REJECTED

BID PARTICULARS FOR TENDER No :

1) Name of the Bidder :

2) Address of the Bidder :

Telephone :

Email :

3) Bidder's proposal number and date :

4) a) Name & Address of the officer to whom all references shall be made regarding this Tender

Telephone :

Email :

b) Name and address of the office (s) from where support would be offered to the client :

5) Number of years of experience :

6) Work experience to serve in State / Central Government/ PSU/ Autonomous body in similar Information Technology related services :

- 7) GST Registration Certificate : yes / no
(Attached attested copy)
- 8) Self-declaration that the firm has never : yes / no
been Blacklisted. (Attached Annexure-III)
- 9) PAN No.
- 10) OEM Certification for the Bidder : yes / no
- 11) Bank Account Details (provided) : yes / no

I/We have read all the terms and conditions of Tender and accept them in full (Enclose a Certificate of Acceptance).

(Signature with official seal of the bidder)

DECLARATION

I/WE DECLARE THAT THE INFORMATION SUPPLIED ABOVE IS CORRECT TO THE BEST OF MY/OUR KNOWLEDGE.

(Signature with official seal of the bidder)

ANNEXURE-I – Technical Bid (Part –B)

(Please mention Model Number in each case in the Tender)

A. Specifications

Note: Technical Bid should contain Make /Model and Detailed Technical Catalogue along with point wise compliance statement.

Detailed technical compliance sheets attached, The same are required to be duly filled and signed on each page with seal. Indicate the onsite warranty period also.

**ELEARNING, RECORDING, EDITING/DELIVERY, FACILITY
(E-STUDIO)**

Sl. No.	Item	Qty	Compliance (YES/NO)
1.	<p>Video Switcher-4 Chanel (HDMI/SDI)</p> <p>Specify Make: _____ Model: _____ Warranty: _____</p> <p>Video Standard Video Format Video Processing Input Routable / Crosspoint Video Input Computer Graphic Interface Video Output Built-in Multi-view Monitoring Out Analogue Audio Input Analogue Audio Output Digital Embedded Audio Support Audio & Video Switching Chromakey USK DSK Picture in Picture Logo Insertion Still Store Effects Transition Preview Sync / Reference In/Out Tally Output</p>	1	
	<p>Specification</p> <p>HD 1080i 50/59,94/60Hz 720p 50/59,94/60Hz SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB: 4:4:4 All 4, repeatable 2x HD-SDI 2x HDMI 2 via HDMI 2 x HDMI (1 is MV, 1 is Assignable) 1 x HD-SDI (Assignable) HDMI & SDI assignable</p> <p>1 x Stereo RCA (L/R) 2 x Mono Microphone 1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Input 2 channels, Output 2 channels Must be supported 2 2x Keyer support Chromakey/ Linear/ Luma Key 1x DSK support LumaKey/ Linear key (Key / Fill) 1 1 500 FTB, Cut, 32 Wipe with border Full transitions preview Built-in Genlock (internal) 1x D-sub 15pin, dual color</p>		

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Signature of Bidder.

Part -B of Technical Bid

	<p>PC Remote Control Built-in Audio Mixer Special Features Chassis Dimension (LxWxH) Weight Power Operating Temp. Range Options</p>	<p>DVIP (Ethernet) Yes, 4 channels Free Virtual Set and Stinger transition included Unibody 400 x 250 x 82 mm 1.9 kg DC 12V, 29W 0~40 °C CB-46/47/60/61/62</p>
<p>2. Video Recorder -HD Specify Make: _____ Model: _____ Warranty: _____</p>	<p>• HD recorder (H.264 USB Recorder/Player) • Support for post-production or play out • Small footprint for portability • USB 3.0 Compatibility • Supports built-in functions for Video recording • Embedded Audio</p>	<p>1</p>
<p>Video Standard Video Format Supported Video Input Signal Monitoring / Playback Output Embedded Audio Storage Medium Estimated Record Time (min per 10GB) Recording Media</p>	<p>HD & SD 1080p 50/60 1080i 50/60 720p 50/60 480i/480p/576i/576p 1x HDMI 1x HDMI 2ch pcm USB Flash Drive SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)</p>	<p>• USB Flash Drive, • SD Card (USB adapter required) • HDD/SSD (via USB2.0)</p>
<p>Storage File System Recorded File Format</p>	<p>NTFS MP4 (H.264+ AAC)</p>	<p>NTFS MP4 (H.264+ AAC)</p>

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Signature of Bidder

	<p>Video Recording Bit Rate / Color Sampling Audio Recording Format External Control Power Failure Protection Chassis size Dimension (LxWxH) Weight Operating Temp. Range Power supply</p>	<p>YUV 4:2:0 / 12bit AAC 2CH, 16bit 48KHz 128Kbps RS-232 (DSub 9pin), GPI (3.5Ø phone jack) Specify Specify in mm Specify in mm <1.5 kg 0~40 °C Specify Voltage and Power</p>	
<p>3. H.264 Dual Streaming Encoder Specify Make: _____ Model: _____ Warranty: _____</p>	<ul style="list-style-type: none"> • Supports dual streaming • Simultaneous H.264 streaming and recording • SDI & HDMI Video Inputs with Stereo RCA • Vertical streaming for Mobile • Record on SD card • Remotely controlled by Windows or Mac • Compatible with Cloud • The streaming encoder and associated equipment(s) should support configurability, so as provision seamless connectivity, to custom streaming server (Premise & Cloud). <p>Video Input Supported Video Input Resolution</p> <p>Video Output Audio Input Encoder</p>	<p>HDMI x1 SDI x1 1080p 60/59.94/50 1080p 30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 480i 59.94, 576i 50 Specify support SDI & HDMI embedded audio RCA L/R x1 H.264/AVC, Main/High Profile Level 4.1</p>	<p>1</p>

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Signature of Bidder

Part -B of Technical Bid

		<p>Video Bitrate</p> <p>Record Only: Up to 16Mbps (1080p50/60) Stream Only: Up to 10Mbps (1080p50/60) Rec&Stream: 36Mbps (1080p50/60)</p> <p>Video Rate Mode</p> <p>Stereo/Mono</p> <p>Audio Mode</p> <p>Stereo: 64~384Kbps Mono: 32~192Kbps</p> <p>Audio Bitrate</p> <p>Streaming Protocols</p> <p>TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP/RTMPS (Publish) HLS SRT</p> <p>Network Interface</p> <p>1x RJ45 (10/100Mbps Ethernet)</p> <p>Recording File Format</p> <p>MP4, TS</p> <p>Storage</p> <p>SD Card x1 (File System: NTFS, FAT, exFAT)</p> <p>Special Feature</p> <p>Vertical video stream(rotate & crop) Dual streaming</p> <p>Power Supply</p> <p>Specify Voltage and Power</p> <p>Dimension (LxWxH)</p> <p>Specify in mm</p> <p>Weight</p> <p>< 1 kg</p> <p>Operating Temp. Range</p> <p>0~40 °C</p>	
<p>4.</p> <p>HD PTZ Camera</p>		<ul style="list-style-type: none"> • Full HD resolution (1/2.8 inch CMOS sensor, 1920x1080px Full HD resolution, 60fps.) • 20x Optical Zoom, 10x Digital Zoom • Advanced 2D/3D noise reduction function • H.264/H.265 video compression for streaming • Multi-camera control • Remote control and preview through web user interface <p>Video format support</p> <p>1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50</p>	<p>2</p>

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Signature of Bidder

Part -B of Technical Bid

<p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<p>Image Sensor</p> <p>Effective Pixels (approx.)</p> <p>S/N Ratio</p> <p>Min. Illumination</p> <p>Electronic Shutter</p> <p>Zoom Ratio</p> <p>Gamma Control</p> <p>Iris Control</p> <p>Digital Noise Reductions</p> <p>On-Screen Display (OSD)</p> <p>White Balance</p> <p>AGC / Gain Control</p> <p>Mirror / Flip Image</p> <p>Focus Mode</p> <p>Panning / Tilting Range</p> <p>Panning / Tilting Speed</p> <p>Preset</p> <p>Focal Length</p> <p>Field of View (Horizontal, Wide)</p> <p>Image Compensation</p> <p>Video Output</p> <p>Audio Input</p> <p>Tally LED</p> <p>Filter</p> <p>Protocol</p> <p>Remote Control Interface and Transmit Distance</p>	<p>1/2.8 inch high quality HD CMOS sensor</p> <p>2.07 Mega pixels</p> <p>>50 dB</p> <p>0.5Lux (F1.8, AGC ON)</p> <p>Auto / Manual</p> <p>20x Optical Zoom, 10x Digital Zoom</p> <p>Off / Normal</p> <p>Auto / Manual</p> <p>Yes</p> <p>English</p> <p>Auto / Manual</p> <p>Auto / Manual</p> <p>Yes</p> <p>Auto / Manual</p> <p>Pan: 340°, Tilt: +90° to -30°</p> <p>Pan: 0.1~60°/sec</p> <p>Tilt: 0.1~30°/sec</p> <p>255 Position</p> <p>f=5.2 (wide) to 98 (tele) mm</p> <p>F1.6 to F3.5</p> <p>Approx. 54.7° (WIDE END) / 3.3° (TELE END)</p> <p>Backlight Compensation</p> <p>HDMI x 1, SDI x 1</p> <p>3.5mm Line in</p> <p>Dual color (Red, Green)</p> <p>M52.0 x 0.75 Thread with UV Protection</p> <p>VISCA/Pelco-D/Pelco-P;</p> <p>Baud Rate:115200/38400/9600/4800/2400bps</p> <p>DVIP</p> <p>RL45: for IP control (DVIP)</p> <p>RS-232: Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)</p>
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Signature of Bidder

Part -B of Technical Bid

	<p>RS-485 H.264, H.265, Dual stream output AAC/MP3/G.711A Audio compression 100M IP port(100BASE-TX); Support DVIP RTSP, RTMP Ethernet Yes RMC-180/RMC-300C 1/4-20 UNC 156 x 182 x 186 mm 1.6 kg 0~40 °C DC 12V 12W</p>		
5.	<p>HD PTZ Camera tripod</p> <p>Specify _____ Make: _____ Model: _____ Warranty: _____</p>	<p>PTZ Camera Tripode</p> <ul style="list-style-type: none"> • Dual head structure (flat base/65mm bowl) • Equipped with a One touch attach and release mechanism. <p>Payload 4kg / 9.0lb (C.G.55mm) Tilt angle +90° / -80° Camera plate Sliding plate Compatible with Manfrotto and Sachtler heads Sliding range +/-30mm / 1.2" Weight 3.1kg / 6.9lb Height 75.5cm to 159cm / 29.7 to 62.6" Ball diameter 65mm</p>	2

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Signature of Bidder

<p>6. 12 Channel Audio Mixer With USB</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<ul style="list-style-type: none"> • 12-channel mixer • Should support professional microphone preamps • Provision for recording, editing and playback from Mac or PC with an integrated USB audio interface <p>Input (Mic) - Mic/Line Combo Inputs 4</p> <p>Input (Mic) - Gain 4</p> <p>Input (Mic) - Peak Light 4</p> <p>Input (Mic) - EQ High 4</p> <p>Input (Mic) - EQ Mid 4</p> <p>Input (Mic) - EQ Low 4</p> <p>Input (Mic) - Pan 4</p> <p>Input (Mic) - Level 4</p> <p>Input (Line) - 1/4" Stereo Line Inputs w/Trim 2</p> <p>Input (Line) - RCA Stereo Line Inputs 1</p> <p>Input (Line) - 1/4" Stereo Line External FX Return 1</p> <p>Input (Line) - Aux/FX 3</p> <p>Input (Line) - Balance 4</p> <p>Output - Master Stereo Out 1</p> <p>Output - Monitor Stereo Out 1</p> <p>Output - Aux Out 1</p>	<p>1</p>	
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Signature of Bidder

Part - B of Technical Bid

	Lexicon Processing - Reverb/Chorus/Delay	1		
	Lexicon Processing - Tap Tempo	1		
	Output Control - Master Level Fader	1		
	Output Control - Monitor/Phones Level	1		
	Output Control - Output Meters	4x LED		
7.	<p>Wireless Omni Lavalier Microphone System</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<p>1</p> <ul style="list-style-type: none"> • Should Provide Quality broadcasting • The system should include the ME 2-II omnidirectional lavalier mic, a bodypack transmitter, and a camera-mount receiver. <p>System</p> <p>Wireless Transmission Analog UHF</p> <p>Number of RF Channels 1680</p> <p>Included Transmitters 1 x Bodypack with Microphone</p> <p>Diversity Antenna Diversity</p> <p>RF Frequency Band A:</p> <p>516 to 558 MHz</p> <p>RF Bandwidth 42 MHz</p> <p>Frequency Step Size 25 kHz</p> <p>Max Operating Range 330' / 100.6 m (Line of Sight)</p> <p>Max Systems per Setup 12</p> <p>Deviation 48 kHz (Peak)</p> <p>Modulation Wideband FM</p>	<p>Receiver</p> <p>Form Factor Camera-Mount</p> <p>Mounting Options Shoe-Mount (with Included Hardware)</p> <p>Antenna 1 x Flexible Whip, Fixed</p> <p>Number of Audio Channels 1</p> <p>Audio I/O 1 x 1/8" / 3.5 mm TRS Female Unbalanced Output (Lockable)</p> <p>Gain Range 42 dB (6 dB Steps)</p> <p>Audio Output Level +12 dBu</p> <p>Adjacent Channel Isolation >65 dB</p>	

Signature of Bidder

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	<p>Power Requirements Battery</p> <p>Approx. Battery Life 8 Hours (Alkaline)</p> <p>Display & Indicators 1 x Backlit LCD (Battery Status, Output Level, RF Level)</p> <p>Housing Metal</p> <p>Operating Temperature 14 to 131°F / -10 to 55°C</p> <p>Dimensions 2.5 x 3.2 x 0.9" / 64 x 82 x 24 mm</p> <p>Weight less than 250 g (with Batteries)</p> <p>Transmitter</p> <p>Form Factor Bodypack</p> <p>RF Output Power 30 mW</p> <p>Audio I/O 1 x 1/8" / 3.5 mm TRS Female Unbalanced Input (Lockable)</p> <p>Muting Mute Switch</p> <p>Audio Input Level 3 V RMS (Max)</p> <p>Gain Range 60 dB (3 dB Steps)</p> <p>Frequency Response 80 Hz to 18 KHz (Mic)</p> <p>25 Hz to 18 KHz (Line)</p> <p>Sync Method IR</p> <p>Antenna 1 x Flexible Whip, Fixed (Beltpack)</p> <p>Power Requirements Battery</p> <p>Approx. Battery Life 8 Hours (Alkaline)</p> <p>Display & Indicators 1 x Backlit LCD (Audio Level, Battery Status, Signal Strength)</p> <p>Housing Metal</p> <p>Dimensions 2.5 x 3.2 x 0.9" / 64 x 82 x 24 mm</p> <p>Weight less than 250 g (with Batteries)</p> <p>Microphone</p> <p>Form Factor Lavalier</p> <p>Sound Field Mono</p> <p>Capsule Electret Condenser</p> <p>Polar Pattern Omnidirectional</p> <p>Frequency Range 50 Hz to 18 KHz</p> <p>Equivalent Noise Level 36 dB</p> <p>Maximum SPL 130 dB SPL Peak</p> <p>Sensitivity 20 mV/Pa</p> <p>Output Connectors 1 x 1/8" / 3.5 mm TRS Male Unbalanced (Lockable)</p>		
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Signature of Bidder

Part - B of Technical Bid

	<p>Cable Length 5.25' / 1.6 m Operating Voltage 7.5 V Package Weight less than: 950 g Approx. Box Dimensions (LxWxH) 16.05 x 7.25 x 3"</p>		
<p>8.</p> <p>Studio Head Phone</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<ul style="list-style-type: none"> • 40mm drivers for wide 18Hz - 20kHz frequency response • Self-adjusting headband • lightweight Over-ear design • Professional build quality • 2.5m (8.2') cable 	<p>2</p>	
<p>9.</p> <p>Video Monitor</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<p>22 Inch LED Full HD TV (TH-22D400DX)</p> <p><u>General</u> Technology - Android Audio Features - 16 W Power Features - 60 W</p> <p><u>Display Specific</u> Screen Resolution - 1280 x 720 pixels Screen Size (cm) - 81 cm Panel Type - IPS LED Panel Type</p>	<p>3 (2-PCR/1-Teacher Preview)</p>	

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Signature of Bidder

<p>10. 4K Intelligent Interactive panel</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<table border="1"> <tr> <td>Screen Size</td> <td>75 inch or higher</td> </tr> <tr> <td>Screen Type</td> <td>LED with super bright backlit display</td> </tr> <tr> <td>Panel Type</td> <td>Commercial Grade</td> </tr> <tr> <td>Backlight Type</td> <td>DLED</td> </tr> <tr> <td>Glass bonding</td> <td>ZERO bonding Technology</td> </tr> <tr> <td>Aspect Ratio</td> <td>16:9</td> </tr> <tr> <td>Resolution</td> <td>3840X2160, 4K</td> </tr> <tr> <td>Number of Colors</td> <td>1.07B (10-bit)</td> </tr> <tr> <td>Refreshing frequency</td> <td>120 Hz</td> </tr> <tr> <td>Response Time</td> <td>< 4ms</td> </tr> <tr> <td>Contrast ratio</td> <td>30000:1</td> </tr> <tr> <td>Brightness</td> <td>550 cd/m2</td> </tr> <tr> <td>Viewing Angle</td> <td>178/178</td> </tr> <tr> <td>Life</td> <td>50,000 hrs</td> </tr> <tr> <td>Audio</td> <td></td> </tr> <tr> <td>Audio Amplifier</td> <td>In-built amplifier with 2 channel output</td> </tr> <tr> <td>Audio Speaker</td> <td>2 X 20W</td> </tr> <tr> <td>Touch System</td> <td></td> </tr> <tr> <td>Sensing Type</td> <td>Infrared 10 points writing and 20 point touch</td> </tr> <tr> <td>Touch Response Time</td> <td>< 4ms</td> </tr> <tr> <td>Touch Accuracy</td> <td>0.5 mm</td> </tr> <tr> <td>Touch Coordinates</td> <td>32767 X 32767</td> </tr> <tr> <td>Structure</td> <td></td> </tr> <tr> <td>Surface Protection</td> <td>Toughened glass Level 7 MOHS Std.</td> </tr> <tr> <td>Android CPU module</td> <td></td> </tr> <tr> <td>Processor</td> <td>Dual Processor - Dual core A73 +Dual Core A53</td> </tr> </table>	Screen Size	75 inch or higher	Screen Type	LED with super bright backlit display	Panel Type	Commercial Grade	Backlight Type	DLED	Glass bonding	ZERO bonding Technology	Aspect Ratio	16:9	Resolution	3840X2160, 4K	Number of Colors	1.07B (10-bit)	Refreshing frequency	120 Hz	Response Time	< 4ms	Contrast ratio	30000:1	Brightness	550 cd/m2	Viewing Angle	178/178	Life	50,000 hrs	Audio		Audio Amplifier	In-built amplifier with 2 channel output	Audio Speaker	2 X 20W	Touch System		Sensing Type	Infrared 10 points writing and 20 point touch	Touch Response Time	< 4ms	Touch Accuracy	0.5 mm	Touch Coordinates	32767 X 32767	Structure		Surface Protection	Toughened glass Level 7 MOHS Std.	Android CPU module		Processor	Dual Processor - Dual core A73 +Dual Core A53	<p>1</p>
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Processor	Dual Processor - Dual core A73 +Dual Core A53																																																					

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Signature of Bidder

Part -B of Technical Bid

Memory	3G RAM	
Flash drive	16 GB	
Independent GPU	Quad core	
Network type	Integrated Intel 10/100/1000 Adaption	
Wi-Fi	Intel IEEE 802.11 a/g/n 2.4G and 5.0G	
Bluetooth	Bluetooth 4.2 with all profiles	
Pre-loaded OS	Android 8.0 or higher	
Connectivity		
Camera connectivity	Must support	
LAN RJ45	1 No	
USB 2.0/3.0	3/3Nos	
Mini Display Port	1 No	
Mic and earphone port	1 No	
CVBS	1 No	
VGA Input	1 No	
HDMI 1080p Input	3 No	
HDMI 4K2K	1 No	
PC audio	1 No	
SPDIF optical out	1 No	
Software required		
Whiteboard software	Specially designed software for education classroom purpose with multi point gestures.	
General Software	Support Internet Browser, Android TAB, Android educational content,	
Other Software	Connectivity to Camera and Mac & Android devices	
Power		
Power Requirement	100V-240V AC 50/60HZ	

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Signature of Bidder

Part -B of Technical Bid

		Mini Display Port	1 No	
		Mic and earphone port	1 No	
		VGA output	1 No	
		HDMI 4K2K output	1 No	
		Power	Less than 100 W	
11.	Digitizer	Digitizer with 13.5 Inch display and Pen <ul style="list-style-type: none"> • navigation and support for common gestures through multi-touch functionality • adjustable stand that supports multiple angles • Resolution 1920/1080 FHD • Screen size 13.3 inch(33.8 cm) • Pressure-sensitive, cordless, battery-free Pen • Pen pressure;4096 levels • Color gamut: NTSC at CIE 1931-Coverage Ratio 31% • OS Support for Windows 		
	Specify			
	Make: _____			
	Model: _____			
	Warranty: _____			
12.	Cables & Connectors	HDMI 1.5 meter- 3 No's 1.5 meter- 8 No's 10 meter- 2 No's 5 meter- 2 No's HDMI SPLITTER (1 input 4 output) - 1 No's HDMI Connector – 4 Nos SDI 10 meter- 1 Nos 1.5 meter- 4 Nos HDMI TO SDI Converter - 1 Nos XLr cable Male to female 15 meter- 1 Nos Female to 6.5mm 1.5 meter- 2 Nos 6.5 mm to male 15 meter – 1 Nos		
			Lumpsu m	

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Signature of Bidder

13.	Video Lights	<p>Continuous Video SL 200W light with Soft box 60/90</p> <p>Make: _____ Model: _____ Warranty: _____</p> <p>Color Temperature: 5600K ± 200K Color Accuracy Standard: CRI 93 TLCI 95 Cooling System Fan/Passive Combo Dimming Yes, 10 to 100% Display LCD: Lumens 20000 Photometrics 1114.8 fc / 12,000 lux at 3.3' / 1 m Fixture Dimensions 15.4 x 9.1 x 5.1" / 39.0 x 23.0 x 13.0 cm Fixture Weight 6.97 lb / 3.16 kg</p> <p>Connectors _____ Battery Plate None Lens _____ Reflector Mount BOWENS S-TYPE Mounting Fixture Mount 5/8" Receiver Remote Operation Remote Control Type Proprietary Wireless Wireless Range 65.6' / 20 m Wireless Channels / Groups 16 / 6 Power : AC Input Power 100 to 240 VAC, 50 / 60 Hz Power Source AC Adapter Max Power Consumption 200 W</p> <p>Physical Operating Temperature 14 to 122°F / -10 to 50°C <u>1000 LED White Lights</u></p> <ul style="list-style-type: none"> • High CRI (>93) LEDs • Power :40 Watts • Color corrected light output <p>Professional Installation</p>	2Nos	
14.	Studio Acoustics, Partitioning &	<ul style="list-style-type: none"> • Zero Noise Double Sided acoustics with Partitioning (approx. area: 451 sqft) 	Per Sq feet	

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Signature of Bidder

Part -B of Technical Bid

	false ceiling	<ul style="list-style-type: none"> Window Acoustics (approx. area: 48 sqft) One side Acoustics (wall) (approx. area: 620 sqft) Partitioning (approx. area: 216 sqft) False Ceiling with acoustics (approx. area: 390 sqft) Floor Mat (approx. area: 370 sqft) Sound Proof Studio doors PCR Table (Approx. size: 6 ft x 4 ft) 	<p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>2 Nos</p> <p>1 No</p> <p>-</p>											
15.	<p>Studio Electrical Work (Labor, material and any other)</p>	<p>Subtotal for Studio Acoustics, Partitioning & false ceiling</p> <p>(Inclusive of Materials, Labor, installations, Commissioning. * Actual dimensions (area) may vary. Please mention only sq. feet rate)</p> <ul style="list-style-type: none"> Studio light electrical wiring PCR Electrical works light installation rod fixing AC plug connections Master control Separate Electrical wiring with standard products 	Lumpsu m											
16.	<p>INVERTER SPLIT AIR-CONDITIONER</p> <p>Specify Make:</p>	<table border="1"> <tr> <td>Capacity (Tr)</td> <td>1.5 Tr& 1.10 Tr</td> </tr> <tr> <td>Star Rating - As Per BEE</td> <td>5 Star</td> </tr> <tr> <td>Power Supply</td> <td>230 V / 50 Hz / Single</td> </tr> <tr> <td>Rated Cooling Capacity in kW (Min-Max)</td> <td>5.0 (1.8-6.0) kW</td> </tr> <tr> <td>Rated Power Total Input in kW (Min-Max)</td> <td>1.36 (0.33-1.53) kW</td> </tr> </table>	Capacity (Tr)	1.5 Tr& 1.10 Tr	Star Rating - As Per BEE	5 Star	Power Supply	230 V / 50 Hz / Single	Rated Cooling Capacity in kW (Min-Max)	5.0 (1.8-6.0) kW	Rated Power Total Input in kW (Min-Max)	1.36 (0.33-1.53) kW	<p>1.5 Tr-1 No</p> <p>1.10 Tr-1 No</p>	
Capacity (Tr)	1.5 Tr& 1.10 Tr													
Star Rating - As Per BEE	5 Star													
Power Supply	230 V / 50 Hz / Single													
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Rated Power Total Input in kW (Min-Max)	1.36 (0.33-1.53) kW													

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Signature of Bidder

Part -B of Technical Bid

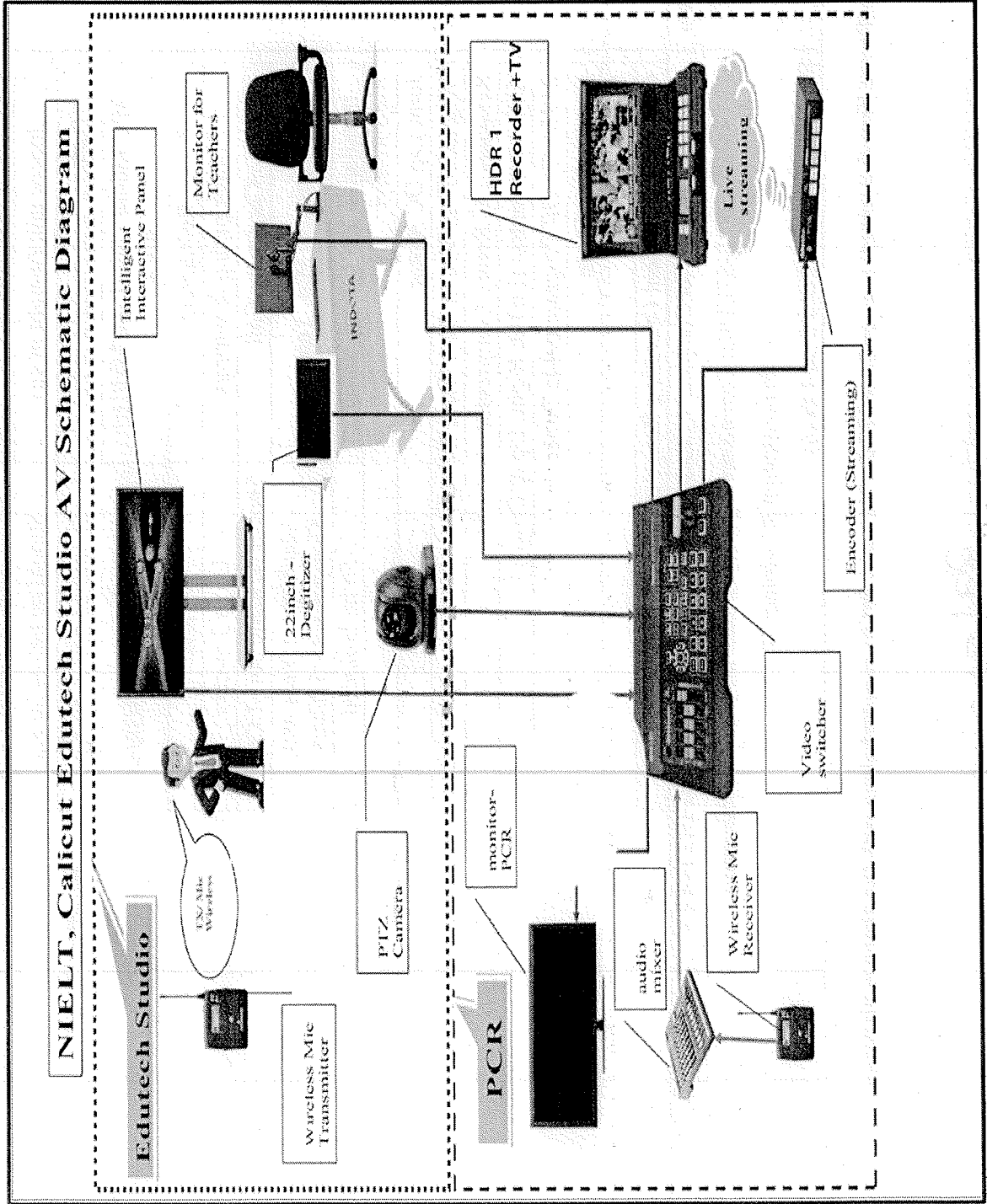
Model: _____ Warranty: _____	Operating Current (A)	Below 6.5 A		
	Air Volume (CFM) Indoor Unit (Low/Mid/Hi)	Should be greater than 390/450/550		
	Indoor unit (weight in kg)	Should be below 20 Kg		
	Outdoor unit (weight in kg)	Should be below 40 Kg		
	SPL Indoor Unit (Low/Mid/Hi) dB(A)	Should be below 33/38/44		
	Refrigerant	R32		
	Copper piping & wirings	Up to 3 meters		
	Condenser Coil	Should be made out of Copper		
	Warranty (Min. Years)	Machine - 1 Year and Compressor - 5 Years		
	Installation and Commissioning	To be Included		
	Auto Restart			
	Joint Lap DC Motor			
	Magnetic Flux Vector Sine Wave Drive			
	Reluctant DC Rotary Compressor			
	Auto vane control (Left & Right, Up & Down)			
	24 Hrs On/Off Programmable Timer			
Fast Cooling Mode				
Sleep Mode				
Guaranteed Ambient Operating Range up to 52°C				
Complete Studio Commissioning Warranty: _____	GRAND TOTAL for Complete ELEARNING RECORDING, EDITING DELIVERY FACILITY (E-STUDIO) Commissioning (Professional Installations, Integration, demonstration & Training) **			
	[Including all above items from 1 to 16)			

** : 1. All associated software (free & licensed) to be included in the bid and must be supplied along with the above equipments

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Signature of Bidder

TECHNICAL BID

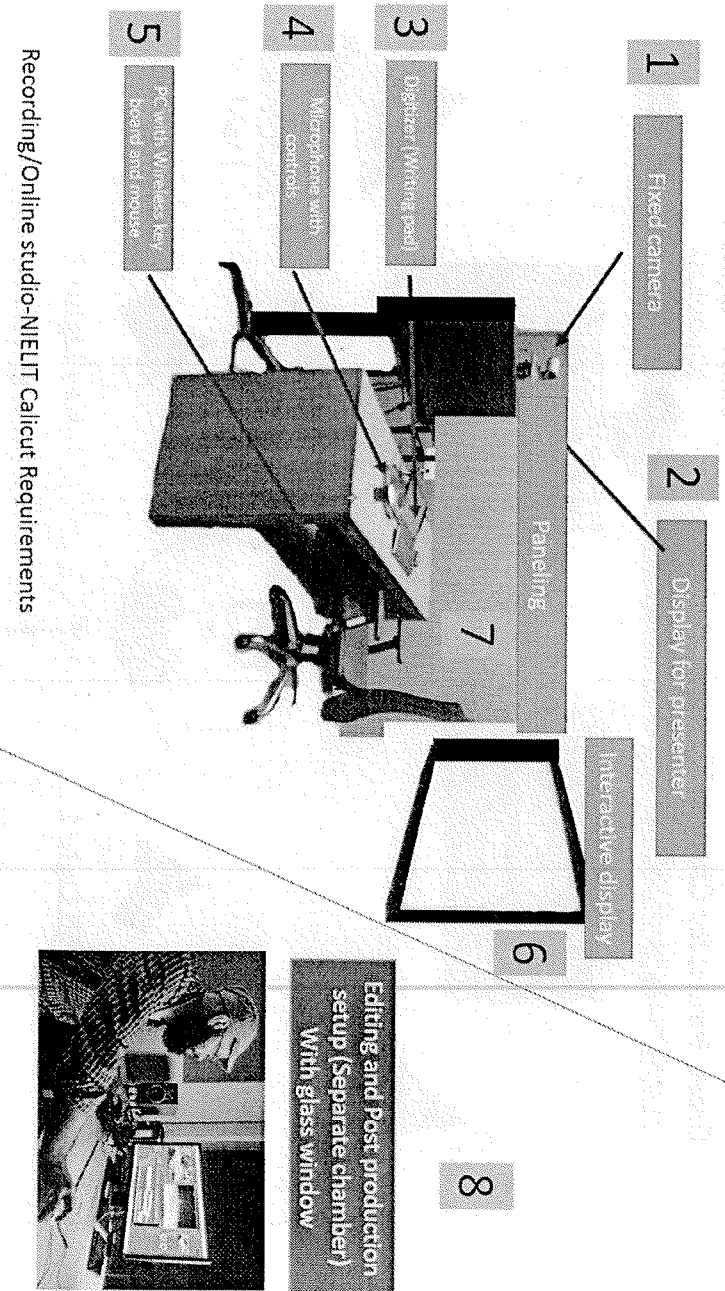


LATERAL VIEW
(FOR
INDICATIVE
PURPOSE ONLY)

Signature of Bidder

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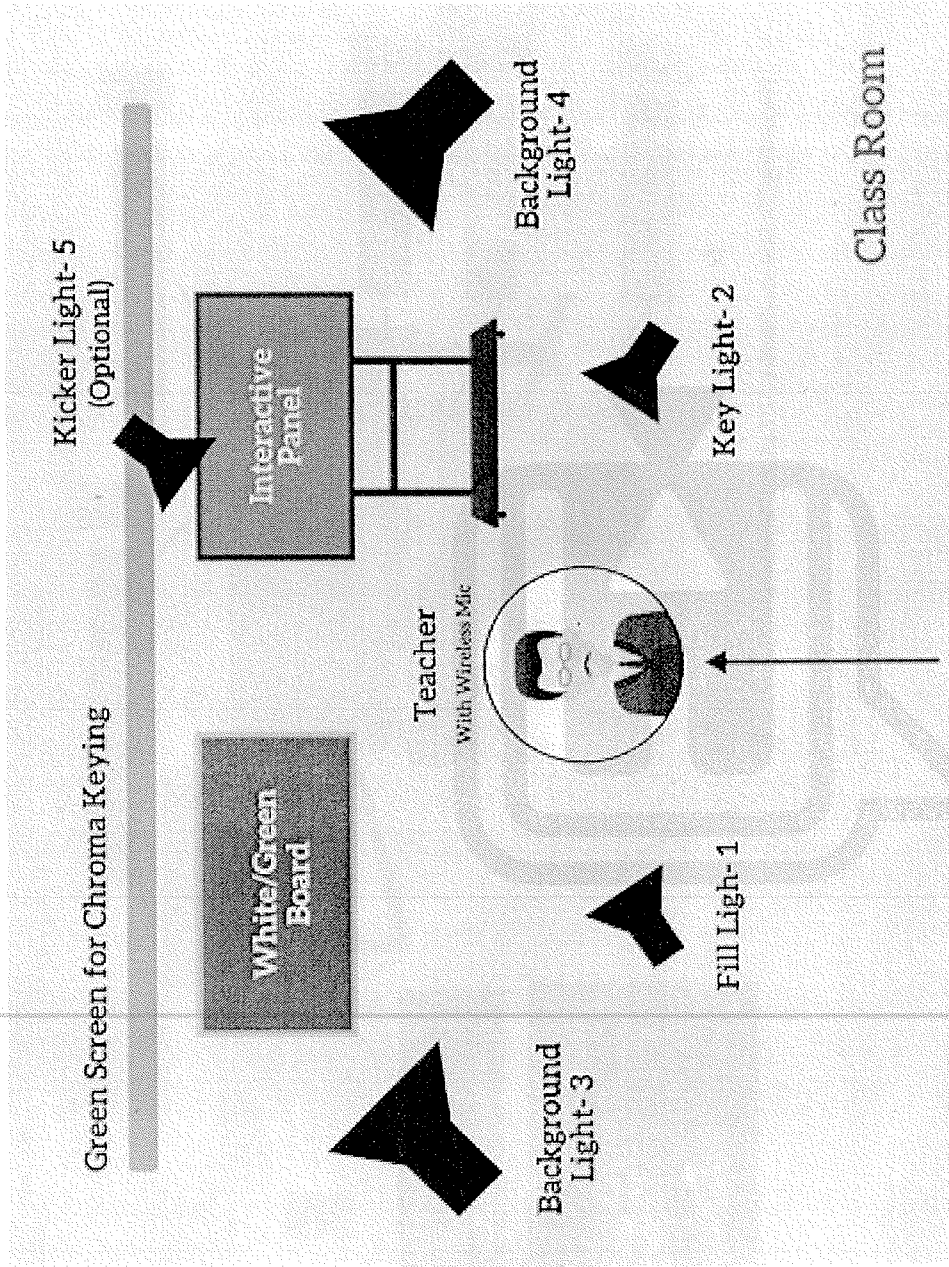
LATERAL VIEW (FOR INDICATIVE PURPOSE ONLY)



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Signature of Bidder

LIGHTING DIAGRAM (FOR INDICATIVE PURPOSE ONLY)



13/1/2021
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ANNEXURE – II (Technical Bid (Part-C))

SELF-DECLARATION – NO BLACKLISTING

To

The Executive Director
National Institute of Electronics and Information Technology (NIELIT),
P B No. 5, NIT Campus Post
Calicut– 673601,
Kerala, India

In response to this Tender document pertaining to Setting up and commissioning of e-Learning delivery recording/editing facility (e-Studio) (Professional equipments with installations, integrator demonstration & training)

at NIELIT Calicut, I/ We hereby declare that our Company/ firm _____ is having unblemished record and is not declared ineligible for corrupt and /or fraudulent practices either indefinitely or for a particular period of time by any State/ Central Government/ PSU/Autonomous Body.

We further declare that our Company/firm _____ is not blacklisted and not declared ineligible for reasons other than corrupt & fraudulent practices by any State/ Central Government/ PSU/ Autonomous Body on the date of Bid Submission.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/our security deposit may be forfeited in full and the award of Purchase Order if any to the extent accepted may be cancelled.

All our financial accounts are properly audited by Chartered Accountants and Income Tax/ GST Returns are filed as per statutory requirements.

Thanking you,

Name of the Bidder: -

Authorized Signatory: -

Seal of the Organization:

Place:

Date:

ANNEXURE- 1 Technical Bid (Part-D)

Undertaking for EMD
(on the letterhead of Organization)

Date:

To
The Executive Director
NIELIT
NIT Campus P.O.
Kozhikode – 673601
Kerala

Subject: Undertaking as per GFR–2017, Rule 170(iii).

Dear Sir,

We, the undersigned, offer to supply in response to your Tender No. dated We are hereby submitting our Bid/Quotation for the same. As a part of eligibility requirement stipulated in the said Tender documents, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 60 days from the date of submission and that we will not withdraw or modify our bid during the validity period.
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance i writing within 7 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Security Deposit of 3% of the order value, as per terms stipulated in the Tender.
4. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as ineligible for said Tender and/or debarred from any **future bidding process of NIELIT for a period of minimum two years.**
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:
Name and Title of Signatory (with seal):
E-mail:
Mobile No:

ANNEXURE - II

Letter Format in Company's letter Head (Financial Bid)

To

The Executive Director
National Institute of Electronics and Information Technology (NIELIT),
Calicut P.B. No. 5, NIT Campus Post
Calicut- 673601
Kerala, India

Sir,

In response to the Tender No. 2(1235)/2021-STED/e-STUDIO dated ___/___/2021, we are submitting the Financial Bid herewith for your kind consideration.

Thanking you,

Name & signature of Authorized Signatory:

Seal of the Organization:

Date:

Place:

ANNEXURE-II – FINANCIAL BID

In continuation reference of Notice inviting tender, terms and conditions, specifications and locations of the client / users the rate which include all charges / taxes etc involving up-to at delivery, installation, development, maintenance and operational charge for users and comprehensive onsite warranty are quoted as under:

Items will be covered under total years on-site Warranty Support including all taxes and charges.

A. Bid for Setting up and commissioning of e-Learning delivery recording/editing facility (see Annexure-I –Part C) for detailed specifications)

Sl. No.	Item description	Qty. (Nos.)	Cost/Unit (INR)	Total Price (INR)
1.	Setting up and commissioning of E-Learning delivery recording/editing facility(e-Studio) (Professional equipments with installations, integration, demonstration & training) (Attach detailed list of items along with price bid)	01		
	Add : GST			
	Add : Transportation, Insurance, Packing & Forwarding charges, if any			
	Less : Discount, if any			
Total price in figures :				
Total price in words :				

Signature of the Bidder with name and address

Seal of the Organization

**ELEARNING RECORDING, EDITING/DELIVERY, FACILITY
(E-STUDIO)**

Sl. No.	Item	Qty	Amount (INR)
1.	<p>Video Switcher-4 Channel (HDMI/SDI)</p> <p>Specify Make: _____ Model: _____ Warranty: _____</p> <p>Video Standard Video Format Video Processing Input Routable / Crosspoint Video Input Computer Graphic Interface Video Output Built-in Multi-view Monitoring Out Analogue Audio Input Analogue Audio Output Digital Embedded Audio Support Audio & Video Switching ChromaKey USK DSK Picture in Picture Logo Insertion Still Store Effects Transition Preview Sync / Reference In/Out Tally Output</p>	1	
	<p>Specification</p> <p>HD 1080i 50/59, 94/60Hz 720p 50/59, 94/60Hz SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB: 4:4:4 All 4, repeatable 2x HD-SDI 2x HDMI 2 via HDMI 2 x HDMI (1 is MV, 1 is Assignable) 1 x HD-SDI (Assignable) HDMI & SDI assignable 1 x Stereo RCA (L/R) 2 x Mono Microphone 1 x Stereo RCA (L/R) 1 x Stereo headphone (Mini Jack with volume control) Input 2 channels, Output 2 channels Must be supported 2 2x Keyer support Chromakey/ Linear/ Luma Key 1x DSK support LumaKey/ Linear key (Key / Fill) 1 1 500 FTB, Cut, 32 Wipe with border Full transitions preview Built-in Genlock (internal) 1x D-sub 15pin, dual color</p>		

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		<p>PC Remote Control Built-in Audio Mixer Special Features Chassis Dimension (LxWxH) Weight Power Operating Temp. Range Options</p>	<p>DVIP (Ethernet) Yes, 4 channels Free Virtual Set and Stinger transition included Unibody 400 x 250 x 82 mm 1.9 kg DC 12V, 29W 0~40 °C CB-46/47/60/61/62</p>	
<p>2. Video Recorder -HD Specify Make: _____ Model: _____ Warranty: _____</p>		<p>• HD recorder (H.264 USB Recorder/Player) • Support for post-production or play out • Small footprint for portability • USB 3.0 Compatibility • Supports built-in functions for Video recording • Embedded Audio</p> <p>Video Standard Video Format</p> <p>Supported Video Input Signal Monitoring / Playback Output Embedded Audio Storage Medium Estimated Record Time (min per 10GB) Recording Media</p> <p>Storage File System Recorded File Format</p>	<p>1</p> <p>HD & SD 1080p 50/60 1080i 50/60 720p 50/60 480i/480p/576i/576p 1x HDMI 1x HDMI 2ch pcm USB Flash Drive SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps) • USB Flash Drive, • SD Card (USB adapter required) • HDD/SSD (via USB2.0)</p> <p>NTFS MP4 (H.264+ AAC)</p>	

Signature of Bidder

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	<p>Video Recording Bit Rate / Color YUV 4:2:0 / 12bit</p> <p>Sampling AAC 2CH,</p> <p>Audio Recording Format 16bit 48KHz 128Kbps</p> <p>External Control RS-232 (DSub 9pin), GPI (3.50 phone jack)</p> <p>Power Failure Protection Specify</p> <p>Chassis size Specify in mm</p> <p>Dimension (LxWxH) Specify in mm</p> <p>Weight <1.5 kg</p> <p>Operating Temp. Range 0~40 °C</p> <p>Power supply Specify Voltage and Power</p>		
<p>3. H.264 Dual Streaming Encoder</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<ul style="list-style-type: none"> • Supports dual streaming • Simultaneous H.264 streaming and recording • SDI & HDMI Video Inputs with Stereo RCA • Vertical streaming for Mobile • Record on SD card • Remotely controlled by Windows or Mac • Compatible with Cloud • The streaming encoder and associated equipment(s) should support configurability, so as provision seamless connectivity, to custom streaming server (Premise & Cloud). <p>Video Input</p> <p>HDMI x1</p> <p>SDI x1</p> <p>Supported Video Input Resolution</p> <p>1080p 60/59.94/50</p> <p>1080p 30/29.97/25/24/23.98</p> <p>1080i 60/59.94/50</p> <p>720p 60/59.94/50</p> <p>480i 59.94, 576i 50</p> <p>Video Output</p> <p>Specify support</p> <p>Audio Input</p> <p>SDI & HDMI embedded audio</p> <p>RCA L/R x1</p> <p>Encoder H.264/AVC, Main/High Profile Level 4.1</p>	<p>1</p>	

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Signature of Bidder

Part of Financial Bid

	<p>Record Only: Up to 16Mbps (1080p50/60) Stream Only: Up to 10Mbps (1080p50/60) Rec&Stream: 36Mbps (1080p50/60) Specify Constant Bit Rate (CBR) - Stereo/Mono Stereo: 64~384Kbps Mono: 32~192Kbps TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP/RTMPS (Publish) HLS SRT</p>	
	<p>1x RJ45 (10/100Mbps Ethernet) MP4, TS SD Card x1 (File System: NTFS, FAT, exFAT) Vertical video stream(rotate & crop) Dual streaming Specify Voltage and Power Specify in mm < 1 kg 0~40 °C</p>	
<p>Video Bitrate Video Rate Mode Audio Mode Audio Bitrate Streaming Protocols Network Interface Recording File Format Storage Special Feature Power Supply Dimension (LxWxH) Weight Operating Temp. Range</p>		<p>2</p>
<p>4. HD PTZ Camera</p>	<ul style="list-style-type: none"> • Full HD resolution (1/2.8 inch CMOS sensor, 1920x1080px Full HD resolution, 60fps.) • 20x Optical Zoom, 10x Digital Zoom • Advanced 2D/3D noise reduction function • H.264/H.265 video compression for streaming • Multi-camera control • Remote control and preview through web user interface 	<p>Video format support</p> <p>1080p 60/59.94/50/30/29.97/25 1080i 60/59.94/50 720p 60/59.94/50</p>

Signature of Bidder

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<p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>		
Image Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels (approx.)	2.07 Mega pixels	
S/N Ratio	>50 dB	
Min. Illumination	0.5Lux (F1.8, AGC ON)	
Electronic Shutter	Auto / Manual	
Zoom Ratio	20x Optical Zoom, 10x Digital Zoom	
Gamma Control	Off / Normal	
Iris Control	Auto / Manual	
Digital Noise Reductions	Yes	
On-Screen Display (OSD)	English	
White Balance	Auto / Manual	
AGC / Gain Control	Auto / Manual	
Mirror / Flip Image	Yes	
Focus Mode	Auto / Manual	
Panning / Tilting Range	Pan: 340°, Tilt: +90° to -30°	
Panning / Tilting Speed	Pan: 0.1~60°/sec Tilt: 0.1~30°/sec	
Preset	255 Position	
Focal Length	f=5.2 (wide) to 98 (tele) mm F1.6 to F3.5	
Field of View (Horizontal, Wide)	Approx. 54.7° (WIDE END) / 3.3° (TELE END)	
Image Compensation	Backlight Compensation	
Video Output	HDMI x 1, SDI x 1	
Audio Input	3.5mm Line in	
Tally LED	Dual color (Red, Green)	
Filter	M52.0 x 0.75 Thread with UV Protection	
Protocol	VISCA/Pelco-D/Pelco-P	
Remote Control Interface and Transmit Distance	Baud Rate: 115200/38400/9600/4800/2400bps DVIP RJ-45: for IP control (DVIP) RS-232: Mini DIN 8-pin (IN) Mini DIN 8-pin (OUT)	

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	<p>RS-485 H.264, H.265, Dual stream output AAC/MP3/G.711A Audio compression 100M IP port(100BASE-TX); Support DVIP RTSP, RTMP Ethernet Yes RMC-180/RMC-300C 1/4-20 UNC 156 x 182 x 186 mm 1.6 kg 0~40 °C DC 12V 12W</p>	<p>Video Compression Format Audio Compression Format HD IP Interface Network Protocol F/W Update IR Control Camera Control Unit Tripod Mount Dimension (LxWxH) Weight Operating Temp. Range Power</p>															
<p>5.</p>	<p>2</p>	<p>PTZ Camera Tripode Dual head structure (flat base/65mm bowl) Equipped with a One touch attach and release mechanism.</p> <table border="1" data-bbox="813 1142 1149 1612"> <tr> <td>Payload</td> <td>4kg / 9.0lb (C.G. 55mm)</td> </tr> <tr> <td>Tilt angle</td> <td>+90° / -80°</td> </tr> <tr> <td>Camera plate</td> <td>Sliding plate</td> </tr> <tr> <td>Sliding range</td> <td>Compatible with Manfrotto and Sachtler heads +/-30mm / 1.2"</td> </tr> <tr> <td>Weight</td> <td>3.1kg / 6.9lb</td> </tr> <tr> <td>Height</td> <td>75.5cm to 159cm / 29.7 to 62.6"</td> </tr> <tr> <td>Ball diameter</td> <td>65mm</td> </tr> </table>	Payload	4kg / 9.0lb (C.G. 55mm)	Tilt angle	+90° / -80°	Camera plate	Sliding plate	Sliding range	Compatible with Manfrotto and Sachtler heads +/-30mm / 1.2"	Weight	3.1kg / 6.9lb	Height	75.5cm to 159cm / 29.7 to 62.6"	Ball diameter	65mm	<p>HD PTZ Camera tripod Specify _____ Make: _____ Model: _____ Warranty: _____</p>
Payload	4kg / 9.0lb (C.G. 55mm)																
Tilt angle	+90° / -80°																
Camera plate	Sliding plate																
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Weight	3.1kg / 6.9lb																
Height	75.5cm to 159cm / 29.7 to 62.6"																
Ball diameter	65mm																

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<p>6. 12 Channel Audio Mixer With USB</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<ul style="list-style-type: none"> • 12-channel mixer • Should support professional microphone preamps • Provision for recording, editing and playback from Mac or PC with an integrated USB audio interface <p>Input (Mfc) - Mic/Line Combo Inputs</p> <p>Input (Mfc) - Gain</p> <p>Input (Mfc) - Peak Light</p> <p>Input (Mfc) - EQ High</p> <p>Input (Mfc) - EQ Mid</p> <p>Input (Mfc) - EQ Low</p> <p>Input (Mfc) - Pan</p> <p>Input (Mfc) - Level</p> <p>Input (Line) - 1/4" Stereo Line Inputs w/Trim</p> <p>Input (Line) - RCA Stereo Line Inputs</p> <p>Input (Line) - 1/4" Stereo Line External FX Return</p> <p>Input (Line) - Aux/FX</p> <p>Input (Line) - Balance</p> <p>Output - Master Stereo Out</p> <p>Output - Monitor Stereo Out</p> <p>Output - Aux Out</p>	<p>1</p>	
		4	
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		4	
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	<p>Lexicon Processing - Reverb/Chorus/Delay</p> <p>Lexicon Processing - Tap Tempo</p> <p>Output Control - Master Level Fader</p> <p>Output Control - Monitor/Phones Level</p> <p>Output Control - Output Meters</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>4x LED</p>	
<p>7. Wireless Omni Lavalier Microphone System</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<ul style="list-style-type: none"> • Should Provide Quality broadcasting • The system should include the ME 2-II omnidirectional lavalier mic, a bodypack transmitter, and a camera-mount receiver. <p>System Wireless Transmission Analog UHF Number of RF Channels 1680 Included Transmitters 1 x Bodypack with Microphone Diversity Antenna Diversity RF Frequency Band A: 516 to 558 MHz RF Bandwidth 42 MHz Frequency Step Size 25 kHz Max Operating Range 330' / 100.6 m (Line of Sight) Max Systems per Setup 12 Deviation 48 kHz (Peak) Modulation Wideband FM</p> <p>Receiver Form Factor Camera-Mount Mounting Options Shoe-Mount (with Included Hardware) Antenna 1 x Flexible Whip, Fixed Number of Audio Channels 1 Audio I/O 1 x 1/8" / 3.5 mm TRS Female Unbalanced Output (Lockable) Gain Range 42 dB (6 dB Steps) Audio Output Level +12 dBu Adjacent Channel Isolation >65 dB</p>	<p>1</p>	

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	<p>Power Requirements Battery</p> <p>Approx. Battery Life 8 Hours (Alkaline)</p> <p>Display & Indicators 1 x Backlit LCD (Battery Status, Output Level, RF Level)</p> <p>Housing Metal</p> <p>Operating Temperature 14 to 131°F / -10 to 55°C</p> <p>Dimensions 2.5 x 3.2 x 0.9" / 64 x 82 x 24 mm</p> <p>Weight less than 250 g (with Batteries)</p> <p>Transmitter</p> <p>Form Factor Bodypack</p> <p>RF Output Power 30 mW</p> <p>Audio I/O 1 x 1/8" / 3.5 mm TRS Female Unbalanced Input (Lockable)</p> <p>Muting Mute Switch</p> <p>Audio Input Level 3 V RMS (Max)</p> <p>Gain Range 60 dB (3 dB Steps)</p> <p>Frequency Response 80 Hz to 18 kHz (Mic)</p> <p>25 Hz to 18 kHz (Line)</p> <p>Sync Method IR</p> <p>Antenna 1 x Flexible Whip, Fixed (Beltpack)</p> <p>Power Requirements Battery</p> <p>Approx. Battery Life 8 Hours (Alkaline)</p> <p>Display & Indicators 1 x Backlit LCD (Audio Level, Battery Status, Signal Strength)</p> <p>Housing Metal</p> <p>Dimensions 2.5 x 3.2 x 0.9" / 64 x 82 x 24 mm</p> <p>Weight less than 250 g (with Batteries)</p> <p>Microphone</p> <p>Form Factor Lavalier</p> <p>Sound Field Mono</p> <p>Capsule Electret Condenser</p> <p>Polar Pattern Omnidirectional</p> <p>Frequency Range 50 Hz to 18 kHz</p> <p>Equivalent Noise Level 36 dB</p> <p>Maximum SPL 130 dB SPL Peak</p> <p>Sensitivity 20 mV/Pa</p> <p>Output Connectors 1 x 1/8" / 3.5 mm TRS Male Unbalanced (Lockable)</p>		
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8.	<p>Studio Head Phone</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<p>Cable Length 5.25' / 1.6 m Operating Voltage 7.5 V Package Weight less than: 950 g Approx. Box Dimensions (LxWxH) 16.05 x 7.25 x 3"</p> <ul style="list-style-type: none"> • 40mm drivers for wide 18Hz - 20kHz frequency response • Self-adjusting headband • lightweight Over-ear design • Professional build quality • 2.5m (8.2') cable 	2	
9.	<p>Video Monitor</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<p>22 Inch LED Full HD TV (TH-22D400DX)</p> <p><u>General</u> Technology - Android Audio Features - 16 W Power Features - 60 W <u>Display Specific</u> Screen Resolution - 1280 x 720 pixels Screen Size (cm) - 81 cm Panel Type - IPS LED Panel Type</p>	3 (2-PCR/1-Teacher Preview)	

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<p>10. 4K Intelligent Interactive panel</p> <p>Specify</p> <p>Make: _____</p> <p>Model: _____</p> <p>Warranty: _____</p>	<table border="1"> <tr> <td>Screen Size</td> <td>75 inch or higher</td> </tr> <tr> <td>Screen Type</td> <td>LED with super bright backlit display</td> </tr> <tr> <td>Panel Type</td> <td>Commercial Grade</td> </tr> <tr> <td>Backlight Type</td> <td>DLED</td> </tr> <tr> <td>Glass bonding</td> <td>ZERO bonding Technology</td> </tr> <tr> <td>Aspect Ratio</td> <td>16:9</td> </tr> <tr> <td>Resolution</td> <td>3840X2160, 4K</td> </tr> <tr> <td>Number of Colors</td> <td>1.07B (10-bit)</td> </tr> <tr> <td>Refreshing frequency</td> <td>120 Hz</td> </tr> <tr> <td>Response Time</td> <td>< 4ms</td> </tr> <tr> <td>Contrast ratio</td> <td>30000:1</td> </tr> <tr> <td>Brightness</td> <td>550 cd/m2</td> </tr> <tr> <td>Viewing Angle</td> <td>178/178</td> </tr> <tr> <td>Life</td> <td>50,000 hrs</td> </tr> <tr> <td>Audio</td> <td></td> </tr> <tr> <td>Audio Amplifier</td> <td>In-built amplifier with 2 channel output</td> </tr> <tr> <td>Audio Speaker</td> <td>2 X 20W</td> </tr> <tr> <td>Touch System</td> <td></td> </tr> <tr> <td>Sensing Type</td> <td>Infrared 10 points writing and 20 point touch</td> </tr> <tr> <td>Touch Response Time</td> <td>< 4ms</td> </tr> <tr> <td>Touch Accuracy</td> <td>0.5 mm</td> </tr> <tr> <td>Touch Coordinates</td> <td>32767 X 32767</td> </tr> <tr> <td>Structure</td> <td></td> </tr> <tr> <td>Surface Protection</td> <td>Toughened glass Level 7 MOHS Std.</td> </tr> <tr> <td>Android CPU module</td> <td></td> </tr> <tr> <td>Processor</td> <td>Dual Processor - Dual core A73 +Dual Core A53</td> </tr> </table>	Screen Size	75 inch or higher	Screen Type	LED with super bright backlit display	Panel Type	Commercial Grade	Backlight Type	DLED	Glass bonding	ZERO bonding Technology	Aspect Ratio	16:9	Resolution	3840X2160, 4K	Number of Colors	1.07B (10-bit)	Refreshing frequency	120 Hz	Response Time	< 4ms	Contrast ratio	30000:1	Brightness	550 cd/m2	Viewing Angle	178/178	Life	50,000 hrs	Audio		Audio Amplifier	In-built amplifier with 2 channel output	Audio Speaker	2 X 20W	Touch System		Sensing Type	Infrared 10 points writing and 20 point touch	Touch Response Time	< 4ms	Touch Accuracy	0.5 mm	Touch Coordinates	32767 X 32767	Structure		Surface Protection	Toughened glass Level 7 MOHS Std.	Android CPU module		Processor	Dual Processor - Dual core A73 +Dual Core A53	<p>1</p>	
Screen Size	75 inch or higher																																																						
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Memory	3G RAM
Flash drive	16 GB
Independent GPU	Quad core
Network type	Integrated Intel 10/100/1000 Adaption
Wi-Fi	Intel IEEE 802.11 a/g/n 2.4G and 5.0G
Bluetooth	Bluetooth 4.2 with all profiles
Pre-loaded OS	Android 8.0 or higher
Connectivity	
Camera connectivity	Must support
LAN RJ45	1 No
USB 2.0 /3.0	3/3 Nos
Mini Display Port	1 No
Mic and earphone port	1 No
CVBS	1 No
VGA Input	1 No
HDMI 1080p Input	3 No
HDMI 4K2K	1 No
PC audio	1 No
SPDIF optical out	1 No
Software required	
Whiteboard software	Specially designed software for education classroom purpose with multi point gestures.
General Software	Support Internet Browser, Android TAB, Android educational content,
Other Software	Connectivity to Camera and Mac & Android devices
Power	
Power Requirement	100V-240V AC 50/60HZ

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Power Consumption	<600W		
Physical specification			
Dimensions L*H*W	Specify in mm		
Net Weight	< 60 kg		
Environmental Conditions			
Operating Voltage	100V-240V AC 50/60HZ		
Operating Temperature	minus 10 to 55 degree		
operational humidity	10% to 90 %		
PC Module			
CPU Type	Detachable Industrial grade SBC		
Processor	I7 8th generation or higher		
RAM	4GB DDR4 , expandable upto 16GB		
HDD	SATA 500GB , expandable upto 2TB		
SSD	256GB (preferably NVMe)		
Chipset	Intel H310		
Graphics Card	Intel UHD graphics 620 or NVIDIA GT1030/1050		
Audio	Integrated Realtek HD audio stereo		
Ethernet Network	Intel 10/100/1000 mbps		
Wi-Fi	Intel IEEE 802.11 a/g/n 2.4G and 5.0G		
Bluetooth	Bluetooth 4.2 or higher		
OS compatible	Win 10 , Linux 4.0 or higher version		
Life	Minimum 50,000 hrs		
Camera connectivity	Should support		
LAN RJ45	1 No		
USB 2.0	2 Nos		
USB 3.0	4 Nos		
USB 3.1 Type C	1 No		

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		Mini Display Port	1 No
		Mic and earphone port	1 No
		VGA output	1 No
		HDMI 4K2K output	1 No
		Power	Less than 100 W
11.	Digitizer Specify Make: _____ Model: _____ Warranty: _____	<p>Digitizer with 13.5 Inch display and Pen</p> <ul style="list-style-type: none"> • navigation and support for common gestures through multi-touch functionality • adjustable stand that supports multiple angles • Resolution 1920/1080 FHD • Screen size 13.3 inch(33.8 cm) • Pressure-sensitive, cordless, battery-free Pen • Pen pressure;4096 levels • Color gamut: NTSC at CIE 1931-Coverage Ratio 31% • OS Support for Windows 	1
12.	Cables & Connectors	<p>HDMI 15 meter- 3 No's 1.5 meter- 8 No's 10 meter- 2 No's 5 meter- 2 No's</p> <p>HDMI SPLITTER(1 input 4 output) - 1 No's</p> <p>HDMI Connector - 4 Nos</p> <p>SDI 10 meter- 1 Nos 1.5 meter- 4 Nos</p> <p>HDMI TO SDI Converter- 1 Nos</p> <p>XLR cable Male to female 15 meter- 1 Nos Female to 6.5mm 1.5 meter- 2 Nos 6.5 mm to male 15 meter - 1 Nos</p>	Lumspu m

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13.	Video Lights	<p>Continuous Video SL 200W light with Soft box 60/90</p> <p>Make: _____ Model: _____ Warranty: _____</p> <p>Color Temperature: 5600K ± 200K Color Accuracy Standard: CRI 93 TL CI 95 Cooling System Fan/Passive Combo Dimming Yes, 10 to 100% Display/LCD: Lumens 20000 Photometrics 1114.8 fc / 12,000 lux at 3.3' / 1 m Fixture Dimensions 15.4 x 9.1 x 5.1" / 39.0 x 23.0 x 13.0 cm Fixture Weight 6.97 lb / 3.16 kg</p> <p>Connectors Battery Plate None Lens Reflector Mount Bowers S-Type Mounting Fixture Mount 5/8" Receiver Remote Operation Remote Control Type Proprietary Wireless Wireless Range 65.6' / 20 m Wireless Channels / Groups 16 / 6 Power : AC Input Power 100 to 240 VAC, 50 / 60 Hz Power Source AC Adapter Max Power Consumption 200 W</p> <p>Physical Operating Temperature 14 to 122°F / -10 to 50°C <u>1000 LED White Lights</u></p> <ul style="list-style-type: none"> • High CRI (>93) LEDs • Power :40 Watts • Color corrected light output <p>Professional Installation</p>	2 Nos	
14.	Studio Acoustics, Partitioning &	<ul style="list-style-type: none"> • Zero Noise Double Sided acoustics with Partitioning (approx. area: 451 sq ft) 	Per Sq feet	

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	false ceiling	<ul style="list-style-type: none"> Window Acoustics (approx. area: 48 sq ft) One side Acoustics (wall) (approx. area: 620 sq ft) Partitioning (approx. area: 216 sq ft) False Ceiling with acoustics (approx. area: 390 sq ft) Floor Mat (approx. area: 370 sq ft) Sound Proof Studio doors PCR Table (Approx. size: 6 ft x 4 ft) <p>Subtotal for Studio Acoustics, Partitioning & false ceiling</p> <p>(Inclusive of Materials, Labor, installations, Commissioning. * Actual dimensions (area) may vary. Please mention only sq. feet rate)</p>	<p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>Per Sq feet</p> <p>2 Nos</p> <p>1 No</p> <p>-</p>										
15.	Studio Electrical Work (Labor, material and any other)	<ul style="list-style-type: none"> Studio light electrical wiring PCR Electrical works light installation rod fixing AC plug connections Master control Separate Electrical wiring with standard products 	Lumpsu m										
16.	<p>INVERTER SPLIT AIR-CONDITIONER</p> <p>Specify</p> <p>Make:</p>	<table border="1"> <tr> <td>Capacity (Tr)</td> <td>1.5 Tr & 1.10 Tr</td> </tr> <tr> <td>Star Rating - As Per BEE</td> <td>5 Star</td> </tr> <tr> <td>Power Supply</td> <td>230 V / 50 Hz / Single</td> </tr> <tr> <td>Rated Cooling Capacity in kW (Min-Max)</td> <td>5.0 (1.8-6.0) kW</td> </tr> <tr> <td>Rated Power Total Input in kW (Min-Max)</td> <td>1.36 (0.33-1.53) kW</td> </tr> </table>	Capacity (Tr)	1.5 Tr & 1.10 Tr	Star Rating - As Per BEE	5 Star	Power Supply	230 V / 50 Hz / Single	Rated Cooling Capacity in kW (Min-Max)	5.0 (1.8-6.0) kW	Rated Power Total Input in kW (Min-Max)	1.36 (0.33-1.53) kW	<p>1.5 Tr-1 No</p> <p>1.10 Tr-1 No</p>
Capacity (Tr)	1.5 Tr & 1.10 Tr												
Star Rating - As Per BEE	5 Star												
Power Supply	230 V / 50 Hz / Single												
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Rated Power Total Input in kW (Min-Max)	1.36 (0.33-1.53) kW												

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Model: _____ Warranty: _____	Operating Current (A)	Below 6.5 A		
	Air Volume (CFM) Indoor Unit (Low/Mid/Hi)	Should be greater than 390/450/550		
	Indoor unit (weight in kg)	Should be below 20 Kg		
	Outdoor unit (weight in kg)	Should be below 40 Kg		
	SPL Indoor Unit (Low/Mid/Hi) dB(A)	Should be below 33/38/44		
	Refrigerant	R32		
	Copper piping & wirings	Up to 3 meters		
	Condenser Coil	Should be made out of Copper		
	Warranty (Min. Years)	Machine - 1 Year and Compressor - 5 Years		
	Installation and Commissioning	To be Included		
	Auto Restart			
	Joint Lap DC Motor			
	Magnetic Flux Vector Sine Wave Drive			
	Reluctant DC Rotary Compressor			
	Auto vane control (Left & Right, Up & Down)			
24 Hrs On/Off Programmable Timer				
Fast Cooling Mode				
Sleep Mode				
Guaranteed Ambient Operating Range up to 52°C				
Complete Studio Commissioning Warranty: _____	GRAND TOTAL for Complete ELEARNING RECORDING, EDITING DELIVERY FACILITY (E-STUDIO) Commissioning (Professional Installations, Integration, demonstration & Training) **			
	Including all above items from 1 to 16)			

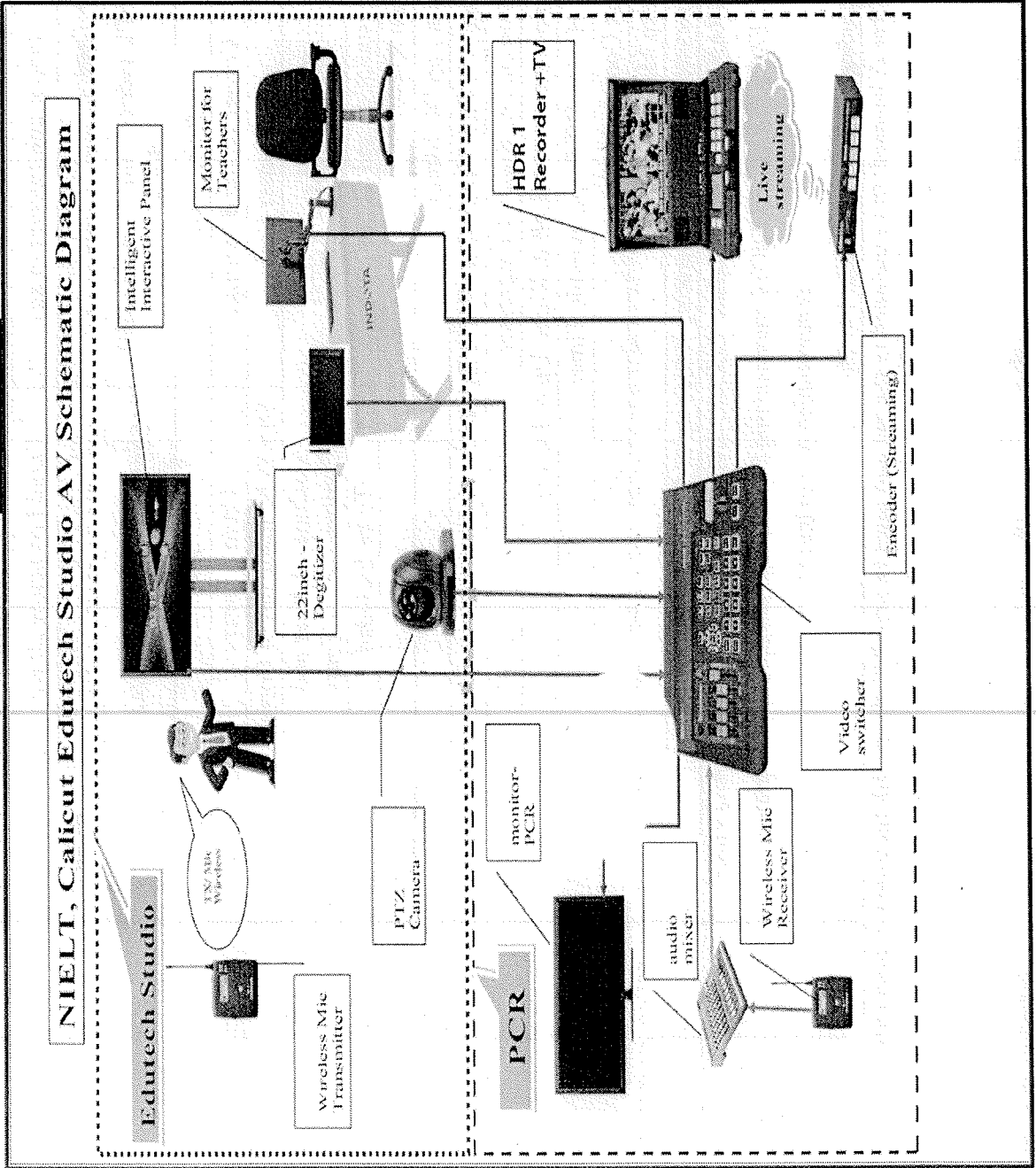
** : 1. All associated software (free & licensed) to be included in the bid and must be supplied along with the above equipments.

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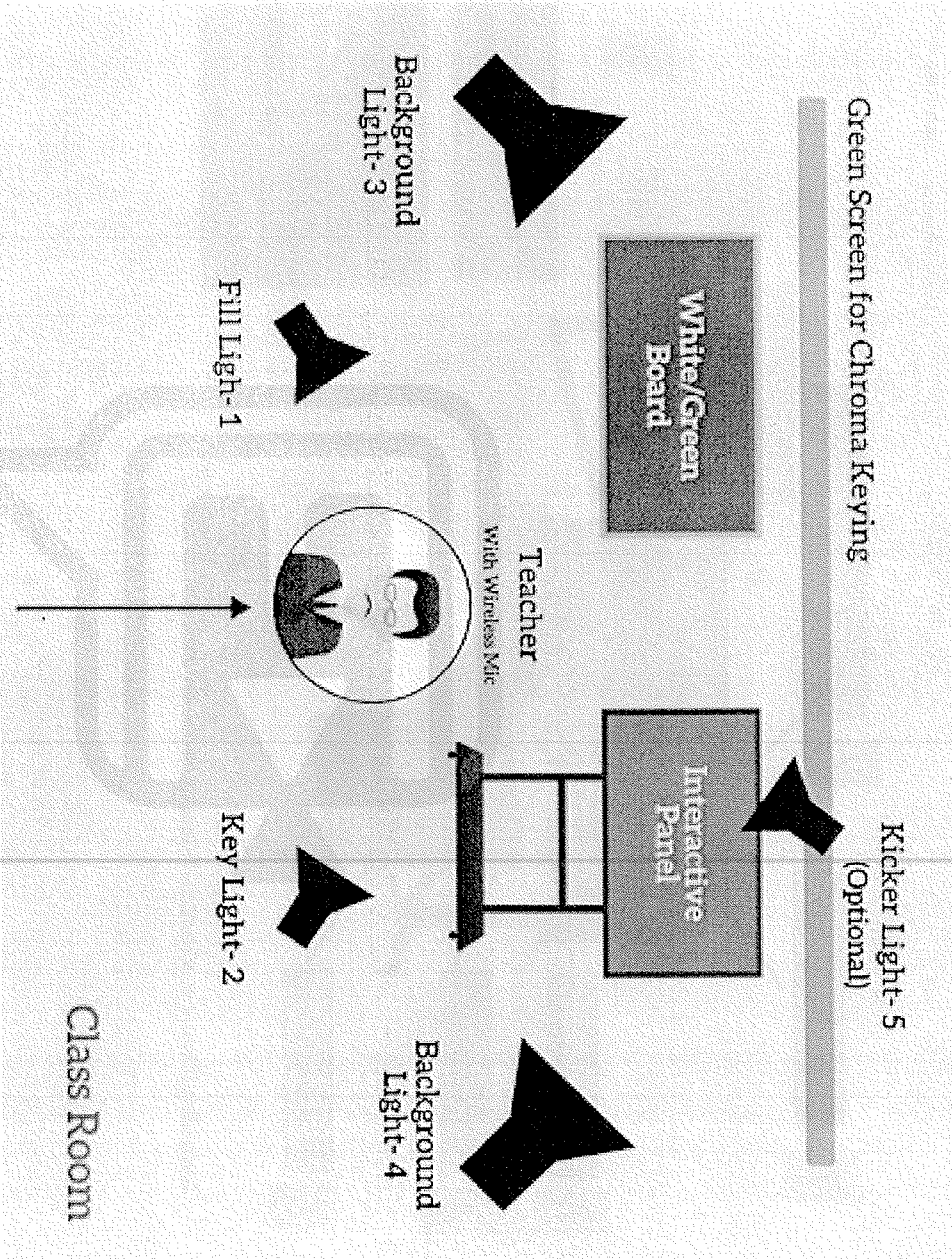
NIELT, Calicut Edutech Studio AV Schematic Diagram



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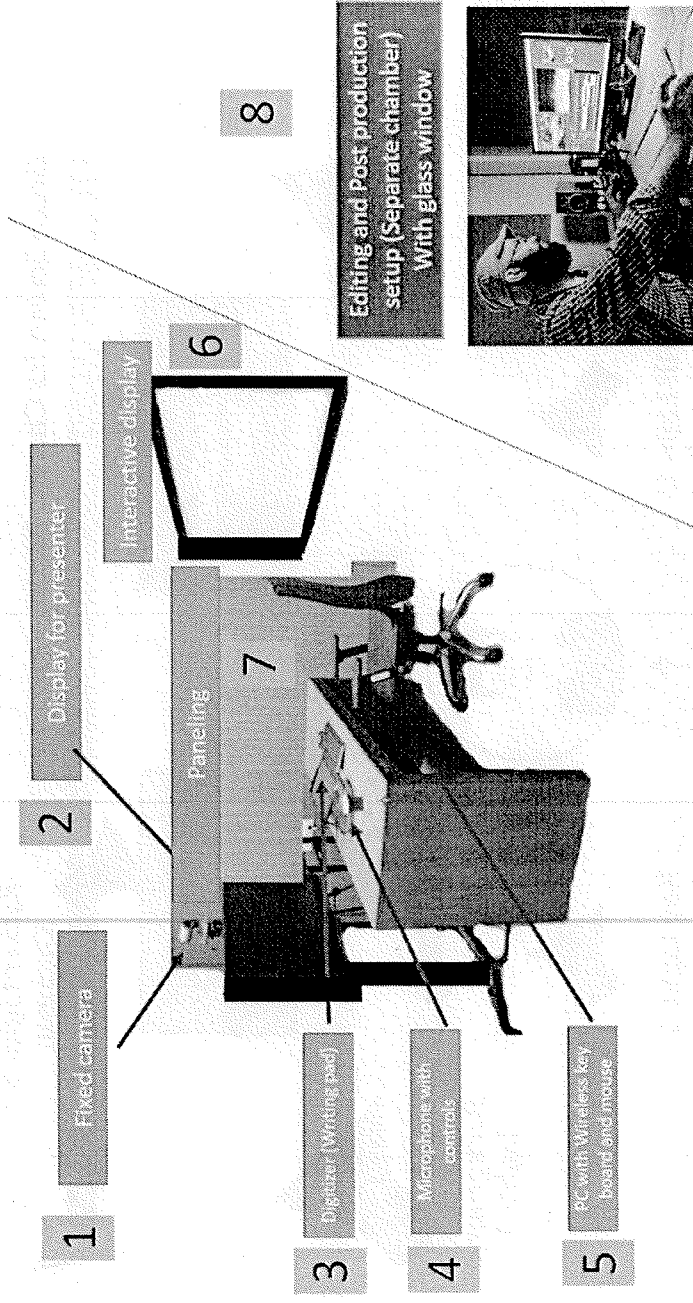
LIGHTING DIAGRAM (FOR INDICATIVE PURPOSE ONLY)



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LATERAL VIEW (FOR INDICATIVE PURPOSE ONLY)



Recording/Online studio-NIELIT Calicut Requirements

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