OFFICE OF THE DEAN::COLLEGE OF FISHERIES ASSAM AGRICULTURAL UNIVERSITY::RAHA::NAGAON::ASSAM

No: AAU/FY/G-88(D)/2019-20/ <u>2340</u> Dtd. <u>11/09/2019/</u>

NOTIFICATION FOR SHORT QUOTATION

Sealed tenders/quotations affixing non-refundable Court Fee Stamp of Rs. 8.25 (Rupees eight and paisa twenty five) are invited from OEMs/authorized dealers/farm/suppliers/publishers/contractor (whoever is/are concerned) for Modern Classroom Interior construction. Details of each category of work and item wise tender can be availed at office during office hours. Quotations will be received within 7(seven) days from date of publication of the notice and will be opened on the next day. The selection will be made considering price, service conditions and reputation of brand.



(K. K. Tamuli)
Dean (i/c)
College of Fisheries,
Assam Agricultural
University,
Raha-782103, Nagaon
Assam.

SHORT NOTICE INVITING TENDER

Tender invited for:1)Supply, installation and commissioning on a turn key basis of Audio – Visual, Acoustic and associated works of Smart & Digital Classroom

The quotations will be received by the undersigned on or before 2:00 P.M on the last date and will be opened on the next date at 3:00 P.M. in the presence of the bidders or their authorized agents. (not mandatory)

NAME OF WORK	TIME OF COMPLETION
Supply, Installation and Commissioning of	45 days from the date of
Audio-Visual, Acoustic and Associated works	Work Order

TERMS FOR THE BIDDER

- 1. Tender to be collected from the College Office during Office hours or may be downloaded from the websites http://www.vetbifguwahati.ernet.in and http://www.aau.ac.in.
- 2. Respective bidder must have working experience of similar nature of the work in a minimum of three reputed organizations.
- 3. Bidders should have a minimum business turnover of Rupees 2.5 crores during last three financial years. Audited Balance Sheet must be attached.
- 4. Authorization Certificates The dealer should provide valid MAF/Authorisation certificate of OEM clearly suggesting the authorization to the dealer without which the tender of bidder will be deemed cancelled
- 5. The bidders are requested to inspect the site of work and acquaint about the site conditions and rules and regulations before quoting the rates.
- 6. Bidder should submit a detail layout and interior design plan of the seminar hall along with the tender.
- 7. The tenders will be liable to be rejected if;
 - a. If the tenderer does not quote for any item/sub-item in the tender.

- b. If the tenderer proposes any alterations to any of the conditions laid down or proposes any other conditions of any description whatsoever.
- 8. The bidder firm must have proper PAN & GSTIN and copy of the same shall have to be enclosed with the quotations.
- 9. The rate quoted shall inclusive of all taxes, forest royalties or any dues payable to Govt. of Assam.
- 10. Preference will be given to the experiences firm/ contractor for acoustic and audiovisual works.
- 11. The quotation should be addressed to "The Dean, College Of Fisheries Science, Raha superscribing the Quotation Notice Number on the envelope.
- 12. The bidder should deposit 1% of the quoted value as **Earnest Money Deposit** along with the tender. It should be made in the form Demand Draft Favoring The Dean, College of Fisheries Science, payable at S.B.I Raha
- 13. The Management of the College reserves the right to accept or reject any or all the quotations without assigning any reason.
- 14. Bid should be submitted separately for Technical and Financial in respective Annexures.

Annexure I

Smart Classroom			
Item	Specifications	Complied (yes/no) Describe quoting model	Remarks
Interactive Board	78 inch diagonal, 4:3 aspect ratio, Dry erase surface, surface area resolution 30 DPI, Multi touch s, Regulatory Certification CE, FCC, IC, UL/CUL, CB, CQC, teach infinity software embedded		
Short throw projector	LCD, White and Colour Brightness at 3,200lm ,XGA Resolution, HDMI Connectivity, 10,000 hours lamplife, Muti- PC Projection throw ratio as low as 0.48,EasyMP Network Projection, 2 years warranty, MRP of replacement lamp for this product should be under Rs. 10,000.00. wmk with cables		
Display	43-inch, 16:9 aspect ratio, 1920 x 1080 pixels resolution, view angle178°/178°,video RCA X 1, audio RCA Pin Type X 2, HDMI 1.4 X 2,USB 2.0 X 1, HDMI CEC, RS232, SAFETY REGULATIONS IS 13252:2010,		
Conference Camera with speaker	Complete camera ,speakerphone , remote control and microphone should be an integrated single OEM solution for ease of use and seamless experience, System should support Bluetooth and NFC (Near Field Communication) for audio call integration with mobile phone in the conference room. System must have all required certification FCC , CE , RoHS and comply to India E-waste management rules, System should be Indian Standard: 9000 certified by any of the NABL government laboratory, OEM for the system should be ISO 9001:2008 certified, All required components of the system should have Government of India - Ministry of Communication & IT approval (WPC - Wireless and planning coordination certified), OEM for the system should be listed in India for more than 5 years as on bid calling date. To support bidder and for better service to end customer, OEM should have minimum 40 or more authorized service centres across India with atleast one service centre in each of the metro cities: Delhi, Mumbai, Bangalore, chennai from the last 3 years as on bid calling date. OEM for the system should be innovative and must have international recoginition from Wainhouse, Frost & Sullivan, let's do video, reddot etc. OEM should be profitable organization with overall turnover of		

minimum 2 billion USD gloabally for the last 2 years.OEM for integrated system should be innovative and must have atleast 100 patents awarded to it's name from day one.OEM for the system should have option to provide SDK free of cost for the integration of the system in any workflow / Application.

System should support onboard H.264 with Scalable Video Coding (SVC), UVC 1.5 for processing of video within the camera and usb Audio class (UAC) to save computing resources on end device/laptop/PC or codec.Output: H.264 ,YUY2,MJPEG.Optical Resolution: 3 MP (1080p30fps or above). Sensor size: 1/3" CMOS. Port: USB 2.0 for end device connectivity. SNR >= 35dB,FOV : Diagonal 90°, Horizontal 81.9° and vertical 59° or above. Aperature: F2.0 ~ 3.0. Smooth Motorized pan, tilt and zoom from remote control and as well as manually from the speakerphone / control unit placed on the table.Lens of the camera should have ZEISS certification . Should support FECC : Far End camera control. Camera Control: Standard VISCA / Mini din 6 pin or equivalent. Should have Kensington Security Slot to ensure physical security of camera in conference room. +/-90° Pan range, +35°/-45° tilt range. LED for speakerphone streaming, mute, hold and bluetooth pairing so that user is aware about the status of the device. Audio Technology: Must support Echo cancellation, Noise reduction, ultrawideband audio. Four inbuilt omni-directional microphones supporting 20-foot or more diameter range. Integrated microphone and supported expansion microphone should have mute/unmute button so that user sitting at any corner of conference room have provision to mute/ unmute the complete system with LED indication on each of microphone. System should support central mountable cable manager for connection of all components in system so that single USB cable(for camera, speakerphone and microphone

) with 3mts of minimum length is connected to end device (laptop,Mac, Codec ,desktop and thin client)	
Table top touch panel	Display Size: 21.5", Resolution: 1920X 1080, Graphics Input: DVI-I, Size: 566 X 385 X 55 mm, Tablet Resolution: 2540 lpi, Adjustable stand, DVI-DVI and DVI-VGA video cables, Five customizable ExpressKeys, 210 cd/m² Brightness, Cordless and battery-free pen with 2 side-switches, 1024 levels of pressure sensitivity, Integrated USB hub with 2 USB ports to provide access to your favorite USB devices, HDCP compliant, Built-in DVI-I pass-thru connector handles either digital or analog input and allows mirroring directly from the pen display to a projector or another display, wacom patented	
Air Conditioner	Auto Clean/ Self clean 3 star Inverter Split ac,4 way swing, 50 ft Long - air throw, 1.5 Ton capacity, EER – 3.62, 900 Air circulation(m3/h), Cooling Capacity 5150 W, Power Requirements (voltage/frequency) - 230/SINGLE/50 (Ph,V,Hz). 4 KVA Voltage Stabilizer	
Ceiling Mount Kit	3 feet to 6 feet ceiling mount Kit wit 15 VGA cable/ HDMI to VGA converter	
Document camera	CMOS Technology, 2M pixels,1920 x 1080,30 FPS, 16:9, video output 750 TV lines , Optical X Digital 12x10, Split Screen, Negative Positive conversion , 380 mm x 285 mm shooting area	
ups	1 KVA UPS with 1 hour back up	

portable projector	Portable projector: ultra-portable LED projector, Big screen projection: shorter throw lens project up to 100-inches from 8-feet 9-inches, Premium audio: built-in dual Harman kardon speakers deliver room-filling audio, Long battery life: a built-in battery provides up to 6 hours of power and can be quickly charged via USB type c		
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	Other Item			
Item	Specifications	Complied (yes/no) Describe quoting model	Remarks	
Wooden Almirah with chair	3 x 2 ftx 2.5 ft table, drawer with one cabinet. MDF made with finishing, Full Wooden Chair with cushion			
Lan	Optical fiber cable ,media converter, patch cord, splicing			
Basic electrification with wiring	UPS connectivity to main line, 4 point modular box			
Room color with finishing	per square feet (color will be selected by management)			

Surveil	Surveillance Security for Smart Classroom and Digital classroom			
Item	Item Specifications		Remarks	
DVR 8 channel	Embedded LINUX, 8 Channel BNC,5MP, 4MP, 1080P@25/30fps - 720P@50/60fps - 720P@25/30fps, record rate Main Stream:8CH: the 1st & 2nd channels 5M-N(1~10fps);other channels 4M-N/1080P(1~15fps); 1080N/720P/960H/D1/CIF (1~25/30fps)Sub stream:CIF/QCIF (1~15fps),1 HDMI ,1 VGA			
2 TB HDD	surveillance			
SMPS	Input: 110 - 240 V AC, with 1.5 meter long power cord, Output: 12 V DC, with 8 Chanel connectors and 8 LED indicators, Working temp: $0 \sim 40 \text{ C}$			
DC	DC Connectors Screw Type			
BNC	High quality			
Camera	Max. 30fps@1080P,HD and SD output switchable,3.6mm fixed lens (2.8mm, 6mm optional),Max. IR length 20m, Smart IR, DC12V			
1 KVA UPS	1 KVA UPS with 2 no.s 7ah battery			
4 U Rack	fully loaded			
Gang box	for camera mounting			
Cat 6	D link			

	PVC pipe/		
	Flexible	1 inch pvc	
	Installation	as per required	
		1/2.8" STARVIS™ CMOS,1920(H) x 1080(V), 2	
PTZ	Megapixels, Progressive scanning, Distance up to 150m		
	(492ft), Distance up to 150m (492ft),4 IR LED,25x optical		
	zoom 16x digital ,180° flip,		

Other Item for Digital Classroom cum Seminar Room				
Item	Specifications	Complied (yes/no) Describe quoting model	Remarks	
Acoustics with paint	Saint Gobain perforated tiles, Perforation size - 12 x 12 mm, Perforated area - 18%, Width (mm) 580, Length (mm) 1160, Weight (kg)7, Class C sound absorber. High quality framing, foaming			
Ceiling paint and painting	Branded			
Wall paper	Branded for 2 walls.			
lights	Led panel light 8 watt, 12 watt, 15 watt			
dias	19 mm ply with carpet 10 x 8 ft			
electrification	On actual per required . Must use materials of great white, anchor, finolex, wipro , havells etc			
UPS	3 KVA, 26 AH x 8 no.s battery 1 hour back. Should include rack and connecting cables. Installation accessories			
A/C	Auto Clean/ Self clean 3 star Inverter Split ac,4 way swing, 50 ft Long - air throw, 1.5 Ton capacity, EER – 3.62, 900 Air circulation(m3/h), Cooling Capacity 5150 W, Power Requirements (voltage/frequency) - 230/SINGLE/50 (Ph,V,Hz). 4 KVA Voltage Stabilizer			
Sofa	Symmetrical, filled with foam, W x H x D: 168 cm x 86 cm x 76 cm (5 ft 6 in x 2 ft 9 in x 2 ft 5 in), Upholstery Included ,3 seater, Frame made from kiln dried and treated pine wood. Elastic belt webbing. Foam cushioning. Artificial leather finish with cherry brown and ABS leg is used, color black, Maximum load capacity.			
Seating arrangment with chair	19mm ISI Marked W/P Plywood finished with 1mm Laminate of a reputed brand, Each Table will have 2 nos 5 Amp Plug points with required wiring. High cushioned chair.			
Student writing pad chair	High quality branded			
table with 3 no.s 6 amp socket	4 ft x 2.5 ftx 2.5 ft .mdf made with drawer for storage. Fitted Black glass			
Lan	I/O box with			

Stool with LAN port and power socket, made of	
steel	

Stool

Digital Classroom cum Seminar Room IT equipment			
Item	Specifications	Complied (yes/no) Describe quoting model	Remarks
Sound Speaker	Long throw 4" (102 mm), utilize a 15 W transformer, Max SPL (calculated): 98.5 dB (104.5 dB Peak), Coverage angle: Horizontal 110°, Vertical 110°, Power handling: 15 W (60 W Peak) Continuous Pink Noise (100 hours), Dimensions (H x W x D): 193 mm x 140 mm x 120 mm (7.6 in x 5.5 in x 4.7 in), Transformer taps: 70 V: 3.7 W, 7.5 W, 15 W 100 V: 7.5 W, 15 W, loudspeaker shall be a surface mount, two-way, full-range system, with an internal passive crossover. The loudspeaker's low-frequency transducer shall be a 4" (102 mm) woofer, with a weather resistant polypropylene cone, and a 1" (25 mm) voice-coil. The loudspeaker's high-frequency transducer shall be a 0.75" (20 mm) Ferro fluid cooled driver. The loudspeaker system shall meet the following performance criteria: Power handling, 15 W of IEC60268-5 continuous pink noise (6 dB crest factor); Frequency response, 75 Hz - 20 kHz (-10 dB from rated sensitivity); Sensitivity, 86.5 dB at one watt, 100 Hz - 10 kHz at one meter. The loudspeaker shall have a transformer suitable for use on 70 V or 100 V distributed lines. The transformer shall have taps ranging from 3.7 W to 15 W, selectableusing a Euroblock connector on the rear of theenclosure.		
Microphone handheld	ClearScan automatically finds the clearest channel, EZsync one-step channel setup, PL22 cardioid dynamic microphone element, Number of Channels : 32, Diversity True Antenna, RF Sensitivity <1.0 μ V for 12 dB SINAD, Squelch Tone Code plus Amplitude, Distortion < 1.0%, 0.4% typical (ref 1 kHz, 40 kHz deviation)		
Microphone lapel	Flexible TNC 1/2 Wave antennas, Connector Type 1/4 inch unbalanced, 3-Pin XLR balanced, element ULM18 Directional Microphone, Number of Channels 32 Per Band, 8 Simultaneous, Polar Pattern Cardioid, Signal-to-Noise Ratio (A-weighted) greater than 100 dBdB Squelch Tone code plus Amplitude		

I	I	 	
	120 Watt Mixer Amplifier, 4 microphone / line		
	inputs, plus music source input, Announcement		
	only output, 3-wire volume override, Wide range of		
	output power (60, 120 and 240 Watts), Connector		
Amplifier with rack	Cinch, stereo converted to mono, Input 1 (push-to-		
	talk contact with priority): 5-pin Euro style,		
	balanced, phantom, Input 2: 3-pin Euro style,		
	balanced, phantom, Input 3 and 4 : TRS Jack (1/4,		
	6.3mm) balanced, 4 u rack fully load .		
	4,000 Lumens, Contrast:100,000:1, 1920x1080		
projector with 8 x 6	resolution, Lamp Life: 20,000 hours / 20,000 hours		
liberty motorized	(eco), Lamp type: Laser Phosphor, required kit to		
screen	mount. Screen		
	All in one wireless presenter having additional		
	functionality of Timer and Pointer (Dimmer,		
	magnifier and highlighter), System must have all		
	required certification FCC , CE , RoHS, GS, C-Tick ,		
	VCCI and comply to India E-waste management		
	rules, OEM for the system should be ISO 9001:2008		
	certified,All required components of the system		
Spotlit	should have Government of India - Ministry of		
βροιπί	Communication & IT approval (WPC - Wireless and		
	planning coordination certified), Software:		
	Powerpoint , Keynote , PDF , Google slides and Prezi		
	etc, Should have the option to control cursor on the		
	screen to click videos and links in the presentation,		
	30meters range, ccelerometer and Gyroscope		
	leveraging Invensense 3D technology, Rechargeable		
	Lithium (80mAh) Or better		
CPU with wireless			
KBM	SFF core i 3, 4GB RAM, 1 TB HDD, win 10,		
	Cable ,connectors , sound cable, switchers and		
Accessories	converters		
	The Video Conferencing device should be ground-		
	breaking solution that offers businesses a		
	revolutionary video conferencing system with		
	unprecedented flexibility and the power of support		
	for multiple popular video conferencing protocols		
	and platforms		
	right out of the box. The SIP-based GVC3200		
	supports Grandstrea m's robust IPVideoTalk		
Video Conferencing	platform for plug and play		
Unit	video conferencing while also being interoperable		
	with any 3rd party SIP video conferencing platform -		
	thus offering a		
	great option to expand or implement a 3rd party		
	platform. Addit ionally, since it is based on Android		
	4.4, the VC devices		
	offers full access to all video conferencing apps in		
	the Google Play Store. The VC should supports an		
	the coopie is a contract to the company of		

embedded MCU that supports up to 9-way conferencing wit h local mixing between SIP and other protocols.

Required Supported Protocol :SIP RFC3261, BFCP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV,

NAPTR), DHCP, PPPOE, SSH, TFTP, NTP, STUN, LLDP-MED, LDAP, TR-069, 802.1x, TLS, SRTP, TCP/IP/UDP, IPv6, FEC, FECC, H.323, Q.931, H.224, H.281, H.225.0, H.239, H.241, H.245, H.460.18 and H.460.19

Camera Specification 1/3" 2 Megapixel CMOS 1920Hx1080V@30fps,12x optical zoom, +/-23° tilt, +/- 90° pan, 70°(W)*- 6.3° (T) field of view

Network Features 1× RJ45 10/ 100/ 1000 Mbps port, Wifi Supported integrated dual-band 802.11 a/b/g/n (2.4GHz & 5GHz), Yes, integrated. Bluetooth 4.0 + EDR

Video Outputs: 3x HDMI up to 1080p with CEC, video outputs 1x VGA/1x HDMI with resolution up to 1080p, Microphone/Speaker External MIC/Speaker, built-in MIC, cascadable external MIC/speaker (pending), Remote Control Bluetooth remote control with multi-touch touchpad, Auxiliary Ports 1x USB 2.0, SD, external speaker port, reset pin, Graphic Display OLED with 128x32 resolution

Voice Codecs G.711 μ /a, G.722 (wide-band), G.726-32, iLBC (pending), Opus, G.722.1, G.722.1c (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), Video Codecs H.264 BP/MP/HP, video resolution up to 1080p, frame rate up to 30 fps, bitrate up to 4Mbps,People Video Resolution 1080p from 512 Kbps, 720p from 384 Kbps, 4SIF/4CIF from 128 Kbps,

SIF/CIF/QSIF/QCIF/SQSIF/SQCIF from 64 Kbps, Content Video Resolution Input: VGA, SVGA, XGA, WXGA, WXGA, SXGA, 1440×900, 720p, 1600×1200, 1080p (HDMI), up to 60fps; Encoding: 1280×720, 1920×1080, Output Resolution 720p, 1080p, Embedded MCU Up to 4-way 1080p conference, 5-way 720p conference, 9-way VGA conference, Dual-Stream BFCP, people video (up to 1080p@30fps) + content video (up to 1080p@15fps, 720p@30fps), Audio Features AEC, ANS, AGC, PLC, CNG/VAD, Video Features FEC, dynamic display layout, picture-in-picture, picture-outside-picture, digital caption (pending), Platform Bridging Bridge SIP calls with

any Android VoIP apps such as Skype, Skype for Business, Google Hangouts and more, Telephony Features Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 9-way audio/video conference, downloadable XML phone book, LDAP, call waiting, call history, flexible dial plan, personalized music ring tones, server redundancy & fail-over, Sample Applications Skype, Google Hangouts, Skype for Business, Web browser, Facebook, Twitter, YouTube, Google calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development

Application Deployment: Allows Android 4.4.2 compliant applications to be deployed in the device with provisioning control, QoS: Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS, Security: User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, 128/256-bit SRTP, HTTPS, 802.1x media access control

Upgrade/Provisioning: Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file

Power & Green Energy Efficiency: Universal power adapter included: Input 100-240VAC 50-60Hz; Output 12VDC/5A (60W), Temperature and Humidity: Operation: 0°C to 40°C, Storage: -10°C to 60°C, Humidity: 10% to 90% Non-condensing, Compliance: FCC: Part 15 (CFR 47) Class B; UL 60950 (power adapter), Part 15C, Part 15E.407, Part 2.1091

CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN62479, RoHS, EN201803, EN63311

EN301893, EN62311

RCM: AS/NZS CISPR22/24; AS/NZS 60950; AS/NZS

4268

Display Panel for Digital Classroom cum seminar hall				
			Complied (yes/no) Describe	
Item	Speci	fications	quoting model	Remarks
	Technology	TFT LCD with DLED Backlit		
	Display Size (diagonal)	65" or higher		
	Aspect Ratio	16:09		
	Resolution	3840 x 2160 4K Ultra HD		
	Flicker Free	Should have Blue Light Filter		
	Static Contrast Ratio	1200:1 (typ) or higher		
	Brightness	350 nits or higher		
	Display Colour	1.07B colors or higher		
	Input Ports	HDMI 2.0 x 3; VGA x 1; Audio x 1; CVBS (AV); RS 232 x 1; Slot In For PC Built-in x 1; Wi-Fi Module Slot Built-in x1; or more		
	Output Ports	HDMI x 1; Audio Out x 1		
	LAN	RJ 45 x 1 or more		
-		3.0 x 3;		
Interactive Panel	USB	2.0 x 2		
with standing		2.0 (For Touch) x 2		
trolley		Camera USB x 1		
	Speakers	10W x 2 Stereo speakers and 15W Subwoofer		
		Type: Should be IR Recognition;		
		Touch Resolution: 32767 x 32767 or higher		
		Touch Point : 20 Points or higher		
	m 1	Writing: 10 Points or		
	Touch	higher		
		Response Time: < 4ms or		
		better Supports: Windows 10/ Windows 8 / Windows 7 /		
		Windows XP / Vista /		
		Linux/ MAC / Android/		
		Wince / Chrome		
	Embedded Player CPU	Android Version: 7.0 or		
	Inbuilt	higher		

T		
	CPU: ARM Quad Core	
	Cortex A72 1.2G Hz or	
	higher	
	GPU: ARM Mali-450 MP 4	
	or higher	
	Memory: 2GB DDR 4 or	
	higher	
	Storage: 16GB eMMC or	
	higher	
	Networking: 10/100M	
	auto-identification and	
	DHCP	
	The USB should detect and	
	follow the current video	
Smart USB Port	input facilitating the user to	
	use front USB ports while	
	attaching their own device.	
	Minimum 7H scratch	
Anti Scratch – Anti Glare	resistant and Anti Glare or	
	higher	
	To facilitate the user not	
	unplug and use the same	
Camera Port	camera port while switching	
	between Slot-in-PC or	
	Android.	
	Should have flexibility to	
	allow content to be mirrored	
Mirror Extending		
	on two IFP simultaneously	
	through HDMI Out.	
	It should allow-	
	broadcasting of IFP Screen	
	from 1 to many and should	
	also allow devices (
Casting in Android	Windows, Chrome, MAC)	
	to broadcast their content on	
	the screen. Minimum 4	
	screens should be	
	broadcasted simultaneously	
	on IFP.	
	Should have Built-in save	
	option, which should save	
Save Option	the whole session directly to	
1	Google Drive and One	
	Drive.	
	Should have Built in Tool to	
	allow participants to submit	
Quiz	answers from their Smart	
Quiz		
	Phones using as	
	answering/voting device.	

	Zoom Video	Should have Built in Zoom	
	Conferencing	Video Conferencing as an	
		integral part of IFP	
		On press of a icon the whole	
		session / annotation should	
	QR Code Scan	be converted into a PDF file	
		and can be downloaded in	
		any Smartphone just by	
		scanning the QR code.	
		On press of a icon a email	
		should be generated	
		automatically along with the whole session /	
	Email	annotation attached as PDF	
		and should be ready to be	
		sent just by inserting the	
		email id.	
		Should have the feature,	
		built-in facility to split the	
		screen in 2,3,4,5 and.6	
	G 11: G	where in six application can	
	Split Screen	be opened from a single PC	
		/ Laptop allowing to work	
		on all opened application	
		simultaneously	
		Should be able to write on a	
		Blank screen and on any	
	Annotation/Writing	application – PPT, Word,	
		Excel, PDT, Web Browser,	
		Video etc.	
		Should have floating tools	
	Floating Tool	which should appear just by	
	Trouving Tool	press of 2 fingers for writing	
		/ annotation	
		The Panel should allow user	
		to share / mirror the content	
	Wireless Content Sharing	of Laptop/Desktop (Mac,	
		Windows) and mobile	
		devices (iOS, Android)	
		wirelessly Wireless Presentation	
		should allow user to access	
		their Laptop / Desktop	
		through touch Panel.	
		Should support USB based	
		PTZ cameras allowing	
	Video Conference	Software based Video	
		Conferencing	
		Comording	

	1	,	
Software Built-in PC Slot Optional; PC for the Built-in PC Slot	The software features required should be the integral part of the IFP and both IFP and the software offered should be from the same OEM. Should have slot for the built-in PC i5, Intel Unite, Intel-i5-6400, 8DDR4 RAM, 128 GBSSD, Win Pro 10 Compatible, Intel 1217LM, RTL8111E1, Win Dual band + BT, VGAx1, HDMI Out x 1, Mini DP x 1; USB x3; RJ45 x 1, Software: Win 10		
Wi-Fi and Bluetooth Dongle	Professional; ViewBoard2.1V, Intel Unite, CPU: Realtek RTL 8821AU-VS; Interface: USB-2.0; Wireless / Bluetooth- WiFi Standard: 802.11 a/b/g/n/ac, 2.4G & 5G (5150Mhz-5250MHz & 5725MHz-5825MHz) Up to 433.5Mbps; Bluetooth: Support 2.1/3, 0/4.0 BLE; Vo;tage: 5V DC, Consumption: <2.5W		

<u>Annexure - II</u>

Price Bid

(Vendor should use this format only)

	Unit price	Quantity (Total price
Smart Classroom	with tax	No.)	with tax
Interactive Board		1	
Short throw projector		1	
Display		1	
Conference Camera with speaker		1	
Table top touch panel		1	
Air Conditioner		2	
Ceiling Mount Kit		2	
Document camera		2	
ups		2	
portable projector		1	

Others	Unit price with tax	Quantity (No.)	Total price with tax
Wooden Almirah with chair		2	
Lan		2	
Basic electrification with wiring		2	
Room color with finishing		2	

Surveillance Security for Smartclassroom and Digital classroom	Unit price with tax	Quantity (No.)	Total price with tax
DVR 8 channel		2	
2 TB HDD		2	
SMPS		2	
DC		16	
BNC		32	
Camera		14	
1 KVA UPS		2	
4 U Rack		2	
Gang box		14	
Cat 6		2	
PVC pipe/ Flexible		100	
Installation		18	
PTZ		2	

Digital Classroom cum Seminar Room other	Unit price with	Quantity (Total price with
items	tax	No.)	tax
Acoustics with paint		per sqft	
Ceiling paint and painting		per sqft	
Wall paper		per sqft	
lights		per required	
dias		1	
electrification		per required	
UPS		1	
A/C		3	
Sofa		2	
Seating arrangment with chair		10	
Student writing pad chair		30	
table with 3 no.s 6 amp socket		1	
Lan		1	
Stool		1	

Digital Classroom cum Seminar Room IT equipment	Unit price with tax	Quantity (No.)	Total price with tax
Sound Speaker		4	
Microphone handheld		3	
Microphone lapel		1	
Amplifier with rack		1	
projector with 8 x 6 liberty motorized screen		1	
spotlit		1	
CPU with wireless KBM		1	
Accessories		1	
Video Conferencing Unit		1	
Interactive Panel		1	