eProcurement System of Government of West Bengal

Tender Details

Date : 05-Apr-2023 03:51 PM

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Basic Details

Organisation Chain	DEPARTMENT OF HIGHER EDUCATION||NETAJI SUBHAS OPEN UNIVERSITY
Tender Reference Number	AC/003/23-24
Tender ID	2023_DHE_503837_1

Tender Type	Open Tender	Form of contract	Buy
Tender Category	Goods	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	Yes
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Cover Details, No. Of Covers - 2

Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	NIT
2	Finance	.xls	BOQ
		.pdf	BOQ
		.pdf	ITEM DETAILS LIKE SPECIFICATION, BRAND, PICTURE ETC

Other Important Documents

S.No	Category	Sub Category	Sub Category Description	Format/File
1	CERTIFICATES	GST Registration Certificate	GST Registration Certificate	
2	CERTIFICATES	Permanent Account Number	Permanent Account Number	
3	COMPANY DETAILS	COMPANY DETAILS 1	PARTNERSHIP DEED, CO-OPERATIVE SOCIETY BYLAW, MOA,TRADE LICENCE,COMPANY REGISTRATION CERTIFICATE	
4	CREDENTIAL	CREDENTIAL 1	CREDENTIAL 1	
5	DECLARATION	DECLARATION FILE 1	DECLARATION FILE 1	
6	DECLARATION	DECLARATION FILE 2	DECLARATION FILE 2	

Tender Fee Details, [Total Fee in ₹ * - 0.00]

Tender Fee in ₹	0.00		
Fee Payable To	Nil	Fee Payable At	Nil
Tender Fee Exemption Allowed	No		

EMD Fee Details

EMD Amount in ₹	0.00	EMD through BG/ST or EMD Exemption Allowed	No
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Nil	EMD Payable At	Nil

Click to view modification history

Work /Item(s)

Title	AC/003/23-24
Work Description	HYBRID SEMINAR ROOM

Pre Qualification Details	Please refer Tender documents.				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	0.00	Product Category	Equipments	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	270	Period Of Work(Days)	30
Location	KOLKATA	Pincode	700064	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	KOLKATA
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	05-Apr-2023 05:00 PM	Bid Opening Date	17-Apr-2023 05:00 PM
Document Download / Sale Start Date	05-Apr-2023 05:00 PM	Document Download / Sale End Date	13-Apr-2023 05:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	05-Apr-2023 05:00 PM	Bid Submission End Date	13-Apr-2023 05:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	NIT	742.23

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_1029652.xls	BOQ	265.00

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	sachindrakar@yahoo.in	SACHINDRA CHANDRA KAR	SACHINDRA CHANDRA KAR
2.	debanjanhlr@gmail.com	DEBANJAN GHOSHAL	DEBANJAN GHOSHAL
3.	gopaldas1984@gmail.com	Gopal Das	GOPAL DAS

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Show Bids Details	Yes
BoQ Comparative Chart model	SingleWindow	BoQ Compartive chart decimal places	2
BoQ Comparative Chart Rank Type	L	Form Based BoQ	Yes

Tender Inviting Authority

Name	FINANCE OFFICER
Address	NSOU,DD 26, SECTOR-I, SALT LAKE, KOLKATA-700064

Tender Creator Details	
Created By	SACHINDRA CHANDRA KAR
Designation	FINANCE OFFICER
Created Date	05-Apr-2023 03:12 PM

Memo No: AC/003/23-24   **Dated:05-04-2023**

Notice Inviting e-Tender

e-Tender is invited from reputed, experienced and financially sound companies/vendors/organization for supply & delivery including fittings and installation of various components for Hybrid Seminar room for the Netaji Subhas Open University, DD-26, Sector -1, Salt Lake, Kolkata-700064. Interested bidders are to participate in the bidding process as per specifications and conditions mentioned below in the Annexure - I,II & III.

DATE AND TIME SCHEDULE

Date of Publication of Tender Online through website https://wbtenders.gov.in/	05.04.2023 after 17.00 Hrs.
Date of Document Download Start	05.04.2023 after 17.00 Hrs.
Date of Bid Submission Start	05.04.2023 after 17.00 Hrs.
Date of Bid Submission Closing	13.04.2023 after 17.00 Hrs.
Date of Opening of Technical Bid	17.04.2023 after 17.00 Hrs.
Date of Opening of Financial Bid	To be notified later

Contact No. 9830522689/8777393629(For Technical part & Specification) and 9051162059(General purpose)

Finance Officer
Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata -700064
Email: sachindrakar@yahoo.in
Mobile No: 9432747119

ANNEXURE - I
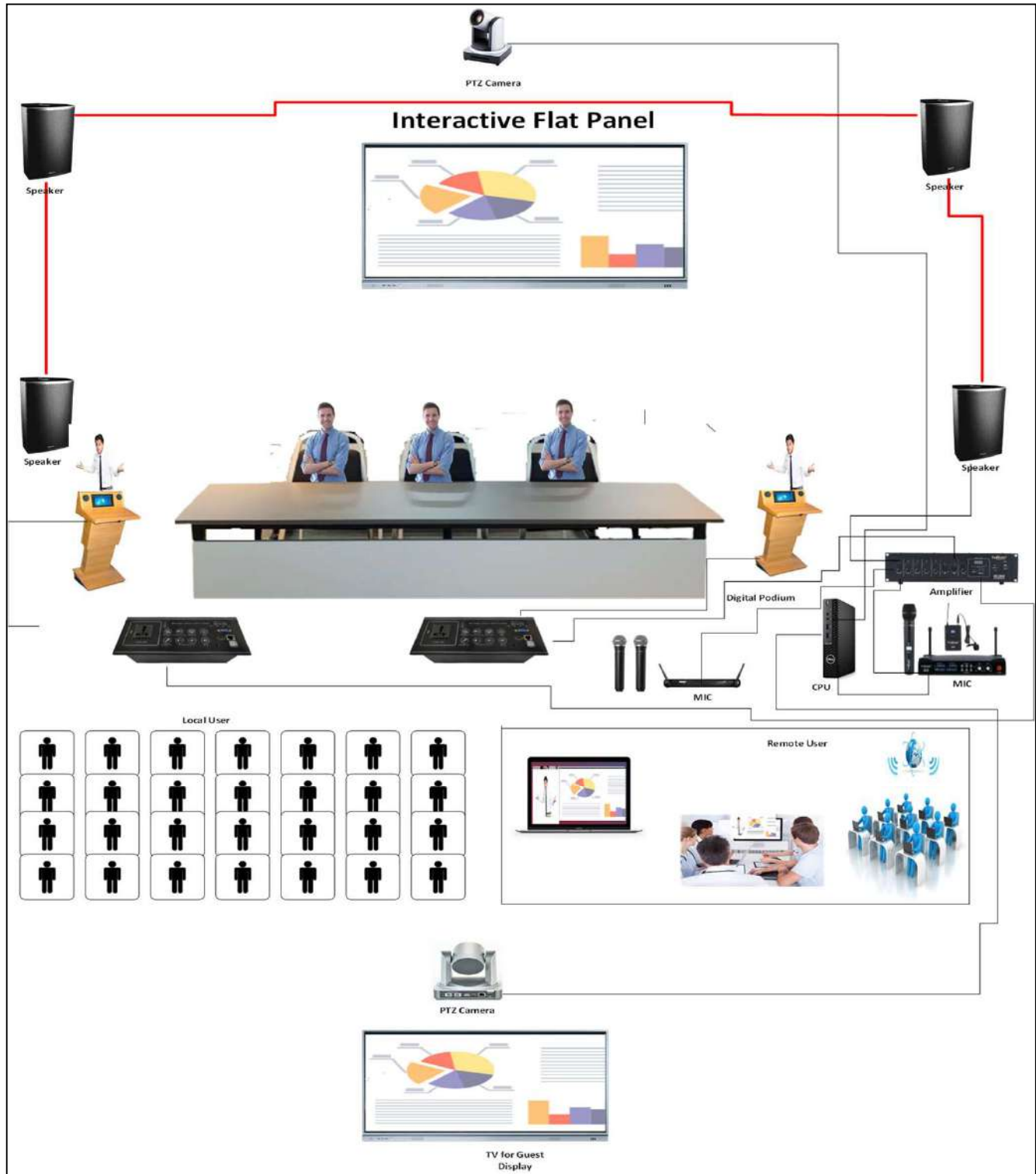
SPECIFICATION FOR TECHNICAL BID

1. The Bidders should have 5 years Experience in similar type of supply & installation as specified in Annexure II.
2. The supplier must have the credential of supply of similar type of items to the Educational Institute/Government office.
3. Supply must include Interactive Flat Panel,CPU,PTZ camera,Controllor,Multiviewer,Splitter,Capture Card.
4. The bidder must have a Annual turnover of minimum 5 crores per year for last 3 FY (i.e. 2021-22,2020-21 & 2019-20) .
5. The bidder/SI/OEM should have local office within 100 km.
6. The bidder should have certificate bearing No: 14001:2015,18001:2017,45001:2018,50001:2018,9001:2015.
7. Componenets like IFP ,Camera should have CE, ROHS, FCC , Bis Certificate
8. Major Componenets like IFP , Camera should be have NSIC Certificate.
9. The Bidders should have legal compliance such as: (1) GST Number, (2) PAN / TAN , (3) Trade License.

Finance Officer
Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata-700064
Email: sachindrakar@yahoo.in
Mobile No: 9432747119

ANNEXURE - II

SPECIFICATION FOR FINANCIAL BID

Specimen image:

Requirment for Studio Solution

Sl.	Particular	Qnty.
1	Interactive Flat Panel Board 75" (DTF 85)(Android OS 11)	1
2	CPU (i7,10th gen,512 SSD,2TB HDD,16GB Ram,4GB Graphics)Windows 11,Office 21	1
3	PTZ Camera 1100 up (20X) with Stand	2
4	Central Controller	2
5	22" Touch Monitor	2
6	Multiviewer	1
7	Capture Card	1
8	Splitter (1X4)	3
9	8" TAB	1
10	IR Sensor	2
11	HDMI 1.5 mtr @ 1pc	6
12	USB male to male 3mtr	2
13	USB Externder 10 mtr	3
14	HDMI 10 mtr	4
15	HDMI RX /TX	6
16	15 mtr Lan cable	2
17	30 mtr Lan Cable	2
18	Lan Cable 10 mtr	1
19	HDMI 3 Mtr	1
20	PPT Changer	1
21	Switch 8 port	1
22	VC Software	1
23	Woodern work Materils	1
24	Electric Work Materils	1
25	Installation and Training	1
26	Delivery Charges	1

> Brand should be registered in India as on 1-1-2020.

> Brand should have minimum 4 year or working experience in India.

> Both the podium touch screen should work at a time

> All the necessary equipments should be supplied to complete the project.

Specification:

SL NO	Interactive Flat Panel (Ekin/LG/Samsung/Viewsonic)		
1	LED PARAMETERS	SIZE	85 INCH
2	DISPLAY PARAMETERS	BACK LIGHT	D-LED
		ACTIVE DISPLAY AREA	1893 (H) X 1069 (V)
		RESOLUTION	3840X2160 (PIXEL,RGB)
		CONTRAST RATIO	50.001
		BRIGHTNESS	450 CD/㎡
		DISPLAY COLORS	1.07B (10 BIT)
		ASPECT RATIO	0.6729
		RESPONSE TIME	6MS (TYP)
		VIEWING ANGLE	178°(H) /178° (V)
		LED LIFE TIME	50,000 HRS (MIN)
		BONDING TECHNOLOGY	ZERO BONDING
		SCREEN PROTECTOR	4MM TEMPERED AG GLASS
3	SPEAKER	SOUND OUTPUT-SPEAKER	8Ω, 15W X 2
4	POWER PARAMETERS	POWER(NO PC)	≤350 W
		WORKING VOLTAGE	100V~240V AC
		STANDBY POWER	< 0.5W
5	ANDROID OS	ANDROID SYSTEM	ANDROID 11 or higher
		RAM AND ROM	DDR4 4GB & EMMC 32GB
		CPU /GPU	QUAD CORE, A55*MAIL G52MP2
		WIFI	WIFI 5, 802.11AC/B/G/N/A/AX (2.4GHZ +5GHZ) : WITH HOTSPOT 5GHZ
		BLUETOOTH	BLUETOOTH 5.0
		UI RESOLUTION	4K
		ETHERNET NETWORK	10M / 100M/ 1000M (DEFAULT)
6	INPTU AND OUTPUT	BACK INTERFACE INPUT AND OUTPUT	USB 3.0*2, TOUCH USB*1, TYPE C*1, HDMI IN*2, USB 2.0*1, RS232*1
			SPDIF*1, AUDIO IN*1, AUDIO OUT*1, DP IN*1, VGA*1, RJ45 OUT*1, HDMI OUT*1

		FRONT CONNECTION	USB 3.0*2, HDMI IN *1 : TOUCH USB*1 : TYPE C*1
7	TOUCH PARAMETERS	TOUCH TECHNOLOGY	INFRARED TECHNOLOGY (IR)
		TOUCH POINTS	WINDOWS SYSTEM : 32 TOUCH : ANDROID SYSTEM : 20 TOUCH
		INDUCTIVE OBJECTS	FINGER OR PEN
		ACCURACY	1MM
		OPERATION SYSTEM	SUPPORT WINDOWS, MAC, ANDROID, LINUX, CHORME
8	ENVIRONMENT	STORAGE AND WORKING TEMPERATURE	WORKING TEMPERATURE: 0 C~45 C, STORAGE TEMPERATURE: 20 C~60 C
		STORAGE AND WORKING HUMIDITY	10% ~ 90%
9	GUI - Graphic User Interface		The display must have GUI for ease access of resources, functions and shortcuts. This GUI shall be any proprietary OS but must be computable with Android coding.
10	Play Store		Should have play store installed in Android OS
11	Software Features		Software must support all basic features like Pen selection, width selection, Color change, Background change, erase, Multiple page navigation, saving of file in PDF and JPEG.
12	Special software Features		Whiteboard software should give option to navigate page with 2 fingers without using menu. Special eraser to erase while writing without selecting menu. > Recording Audio and Video, Screen, Screen Capture with Audio.
			Live Event Streaming.

			Podcasting.
			Instructional Video Creation.
			HIPAA compliant offline video recording (when paired with an encrypted storage device)
13	Customized GUI		User can easily customized their own background and logo's
14	Multimedia File Formats Supported		Support all major types of multi-media files
15	PMS		Power management inbuild Software Multi-Patented Power mind AI, fine grained, Soft Meter, Application and Activity Sensor based Power management software to delivers upto 50% power savings during active and idle hours of the system.
16	STANDARD CONFIGURATION	ACCESSORIES	REMOTE CONTROL*1, POWER CABLE 1.8M*1, STYLUS PEN*2, WALL MOUNTED BRACKET*1

	Wall Mount Kit for Pannel
17	Suitable for TV size:65"-98"
18	Including a precision bubble lever to assure proper mounting angle.
19	Fits most flat panel plasma and LCD TV, safe and easy to install.
20	Surface: powder coated.
21	Compliant to VESA standard: 200*200mm.

	CPU(HP/Ekin/Dell)	
SL No		
1	Cabinet Type	Slim
2	Cabinet Size	130 x 415 x 342 mm (W x D x H)
3	Processor Brand	Pentium/Intel/AMD/Others
4	Processor Type	Core I7 with 10th gen
5	Processor Speed	3.9 GHz or higher
6	RAM Size	16 GB or Higher
7	Memory Technology	DDR4
8	Hard Drive	1TB
9	SSD	500GB
10	Graphics Coprocessor:	4GB Graphics
11	Connectivity Type	Wi-Fi (Optional)
12	Number of USB 2.0 Port	4
13	Number of USB 3.0 Port	2

14	Number of HDMI Ports	1
15	Operating System	Windows 10 professional and Office 21
16	Included Components	Wireless Keyboard, Mouse

Full HD PTZ 20X Camera(Ekin/Logitech/Cisco/Polycom)		
SL No	Technical Specification	
1	Sensor	½.8 Inch High Quality Hd Cmons Sensor
2	Effective Pixels	16:9 2.07mp
3	Video Format	HDMI,USB2.0 and 3.0/Audio (1080P 60/50/30/25 FPS)
4	Optical Zoom	20x, F=5.5—110mm
5	View Angle	3.3degree (Tele)—54.7degree Wide.
6	AV	F1.6 – F3.5
7	Digital Zoom	10x
8	Minimum Illumination	0.5lux (F1.8, Agc On)
9	DNR	2d & 3d Dnr
10	White Balance	Auto/Manual/One Push/3000k /4000k/ 5000k/ 6500k
11	Focus/Iris/Electronic Shutter	Auto/Manual
12	Blc	On/Off
13	Wdr	Off/Dynamic Level Adjustment
14	Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness. B/W Mode, Gamma Curve
15	Snr	>55db
	Input/ Output Interface	
16	Video Interfaces	HDMI,Usb/, Audio-In, Lan and Rs232
17	Image code Stream	Double Streams outputs Simultaneously
18	Video Compression Format	H.264, H.265, Dual Stream Output
19	Control Signal Interface	Rs-232 Ring through Rs232 output,Rs-485
20	Control Protocol	Visca/Pelco-D/Pelco-P;Baud Rate:115200/9600/4800/2400bps
21	Audio Input Interface	Double Track 3.5mm Linear Input
22	Audio Compression Format	Aac/Mp3 Audio Compression
23	Lan Port	100m Ip Port(100base-Tx); Support Visca Protocol Control Through Ip Port.
24	Network Protocol	Rtsp,Trmp, Onvif, Gb/T28181
25	Power Interface	Dc12v
	Ptz And Other Parameter	
26	Pan/Tilt Rotation	+-170 Degree, -30 Degree--+90 Degree
27	Pan Control Speed	o.1 -180 degree/Sec
28	Tilt Control Speed	0.1 -180 degree/Sec
29	Preset Speed	Pan:60 Degree/Sec, Tilt 30 Degree/Sec
30	Preset Number	255 Presets (10 Presets By Remote Controller)
31	Power Adapter	Ac110v-Ac220v To Dc12v/1.5a
33	Remote Operation (Ip)	Remote Upgrade, Reboot And Reset

**Full HD PTZ 20X Camera(Ekin/Logitech/Cisco/Polycom)**	
SL No	Technical Specification
1	Capacitive touch button （8 buttons） with audio and light feedback， wireless MIC (optional)， RFID card to start.
2	With code paring software,control code of projector can be preset or be paired by user.
3	Fully optimized audio solution,MIC full channel mixing and overlay function， multi audio can be displayed in same time.
4	With dual HDMI1.4 output。
5	Interface:VGA 3xINPUT 2xOUTPUT ； Audio 4xINPUT 2xOUTPUT（With stereo） ； HDMI 3xINPUT 2xOUTPUT ； USB 2xINPUT 2xOUTPUT.Control interface ： 2xRS232 ； 1xIR port ； 1xRJ45 ； 1xDC5V power port
6	Power supply controls ： Build in delay off to protect power of projector function,can support customize delay off time.Build in power socket for electric projection screen.
7	Make hole size ： 245（length）mm*95（width）mm; Product size ： 265（Length）mm*115（width）*105（height）mm;

**Touch Monitor (ViewSonic/AOC/ACER)**		
SL No	Technical Specification	
	DISPLAY	
1	Display Size (in.):	22
2	Viewable Area (in.):	21.5
3	Panel Type:	TN Technology
4	Resolution:	1920 x 1080
5	Resolution Type:	FHD (Full HD)
6	Static Contrast Ratio:	1,000:1 (typ)
7	Dynamic Contrast Ratio:	20M:1
8	Light Source:	LED
9	Brightness:	250 cd/m² (typ)
10	Colors:	16.7M
11	Color Space Support:	8 bit (6 bit + Hi-FRC)
12	Aspect Ratio:	16:09
13	Response Time (Typical GTG):	5ms
14	Response Time (GTG w/OD):	5ms
15	Response Time (Typical Tr+Tf):	5ms
	Viewing Angles:	170º horizontal, 160º vertical
16	Backlight Life (Hours):	30000 Hrs (Min)
17	Curvature:	Flat
18	Refresh Rate (Hz):	75
19	Blue Light Filter:	Yes
20	Flicker-Free:	Yes
21	Color Gamut:	NTSC: 72% size (Typ)
22		sRGB: 103% size (Typ)
23	Pixel Size:	0.248 mm (H) x 0.248 mm (V)

24	Touch Screen:	IR, 10-point multi-touch	
25	Surface Treatment:	Glossy, Hard Coating (7H)	
	Cover Glass Thickness:	2mm	
26	PC Resolution (max):	1920x1080	
27	Mac® Resolution (max):	1920x1080	
28	PC Operating System:	Windows 7/8.1/10/11 certified; macOS tested	
29	Mac® Resolution (min):	1920x1080	
30	Preset Number	255 Presets (10 Presets By Remote Controller)	
31	Power Adapter	Ac110v-Ac220v To Dc12v/1.5a	
33	Remote Operation (Ip)	Remote Upgrade, Reboot And Reset	
	COMPATIBILITY		
	VGA:		1
	USB 2.0 Type A:		2
	USB 2.0 Type B:		1
	3.5mm Audio In:		1
	3.5mm Audio Out:		1
	HDMI 1.4:		1
	DVI-D:		1
	Power in:	3-pin Socket (IEC C14 / CEE22)	
	CONTROLS		
	Physical Controls:	1, 2, Up, Down, Power	
	On Screen Display:	Auto Image Adjust, Contrast/Brightness, Input Select, Audio Adjust, Color Adjust, Information, Manual Image Adjust, Setup Menu, Memory Recall	
	AUDIO		
	Internal Speakers:	2Watts x2	

4K60 5x1 Multiviewer (Ekin / Blackbox / Barco)

	Input	3 x HDMI2.0(4K60); 2x DP1.4	
		HDMI2.0:	
	Input resolution	$640x480^8$, $800x600^8$, $1024x768^8$, $1280x768^8$, $1280x800^8$, $1280x1024^8$, $1360x768^8$, $1366x768^8$, $1440x900^8$, $1400x1050^8$, $1600x1200^8$, $1680x1050^8$, $1920x1200^8$, $720x480^8$ (480p), $720x576^6$ (576p), $1280x720^5$ (720p30), $1280x720^6$ (720p50), $1280x720^8$ (720p60), $1920x1080^2$ (1080p24), $1920x1080^3$ (1080p25), $1920x1080^5$ (1080p30), $1920x1080^6$ (1080p50), $1920x1080^8$ (1080p60), $3840x2160^5$(2160p30), $3840x2160^6$ (2160p50), $3840x2160^8$ (2160p60)	
		1 = 23.98 Hz, 2 = 24 Hz, 3 = 25 Hz, 4 = 29.97 Hz, 5 = 30 Hz, 6 = 50 Hz, 7 = 59.94 Hz, 8 = 60 Hz, 9 = 75 Hz	

	Output signals	1 x HDMI2.0	
	Output resolution	HDMI2.0: 1920x1080[6] (1080p50), 1920x1080[8] (1080p60), 3840x2160[5] (2160p30), 3840x2160[6] (2160p50) , 3840x2160[8] (2160p60) 1 = 23.98 Hz, 2 = 24 Hz, 3 = 25 Hz, 4 = 29.97 Hz, 5 = 30 Hz, 6 = 50 Hz, 7 = 59.94 Hz, 8 = 60 Hz, 9 = 75 Hz	
	Audio		
	Input port	3x HDMI, 3xDP	
	Input audio signal	RAW PCM, 16 bit, 32/44.1/48KHz sps; PCM 2.0	
	Output	1 x HDMI2.0;1 x Analog Audio	
	Output audio signal	RAW PCM, 16 bit, 32/44.1/48KHz sps; PCM 2.0	
	Control method		
	Front panel button MODE	Select display mode	
	IN1	Switch/select the input 1 for Single-view mode	
	IN2	Switch/select the input 2 for Single-view mode	
	IN3	Switch/select the input 3 for Single-view mode	
	IN4	Switch/select the input 4 for Single-view mode	
	IN5	Switch/select the input 5 for Single-view mode	
	田	Default input 1 to input 4, Quad-view mode	
	IR	Can realize all the functions of the button, also support fast switching	
	RJ45	DB9, serial port control	
	General parameters		
	General parameters	0 to +45°C (32 to + 113 °F)	
	Storage temperature	-20 to +70°C (-4 to + 158 °F)	
	Relative humidity	10% to 90%	
	Static Protection	Human body discharge mode:±8kV (Air gap discharge)/	
		±4kV (Contact discharge)	
	Power supply	12 V 1.5 A DC	
	Power consumption	10W(Max)	

Tablet (Ekin/Kemar/Aten)		
SL No	Technical Specification	
1	Interface	USB 3.0
2	Video Input	HDMI 2.0
3	Video Output	HDMI 2.0

Sachindra Chandra Kar, Finance Officer, Email: sachindrakar@yahoo.in, Mobile No: 9432747119

4	Max Input Resolution	3840 x 2160 60FPS
5	Max Output Resolution	3840 x 2160 60FPS
6	Audio Input	HDMI 2.0, Line in (TRRS cable), Mic in
7	Audio Output	HDMI 2.0, earphone out
8	Records video signals upto 1080P/60Hz with frame rate of 60fps. HDMI input supports 4k/30Hz.	
9	Supports MJPEG and YUY2	
10	Support UAC and UVC protocol and also support 48KHz PCM audio sampling rate	
11	Compatible with windows 7, 8, 10 or later, Linux OS, Mac OS	
12	USB 3.0, 300~350MB/s bandwidth throuhput, backward compatible with USB2.0 40MB/s bandwidth	
13	Can automatically detect the input video format and then adjust to the set output size and frame rate.	
14	Can automatically detect the input audio format and convert it to 48KHz PCM audio	
15	Support all third party player software compatible with UVC & UAC protocols.	
16	HDMI audio input : LPCM audio signal	
17	Power consumption - 2.5w	
18	Working temperature - 0 - 70 Degree celsius	
19	Signal Indicator : When the device captures video normally, the indicator lights up	
20	Power indicator - When the device is connected to the USB port of the computer, the indicator lights up	
21	Do not use HUB or USB extension line	
22	Low computer configuration can cause irregular flicker or black screen of recording picture	

HDMI 2.0V 4K@60Hz Splitter (Ekin/Kemar/Aten)		
SL No	Technical Specification	
1	HDMI Version	HDMI 2.0
2	HDCP Version	HDCP 2.2
3	HDMI Resolution	up to 3840x2160p@60Hz
4	Support Video Format	8/10/12/36/48 bit Deep Color
5	Max Output Resolution	3840 x 2160 60FPS
6	Support Audio Format	DTS-HD/Dolby-trueHD/DTS/Dolby-AC3/DSD
	Max Baud Rate	18Gbps
7	Max bandwidth	600MHz
8	Support HDMI 2.0, HDCP 2.2	
9	Support 3D video format	
10	Support high resolution up to 3840x2160/60Hz, 3D 1920x1080P@60Hz	
11	Support 8/10/12/36/48 bit deep color	
12	Support EDID management	
13	Support AWG24 HDMI Standard cable	
14	Support single HDMI source, accessing to multiple HDMI sinks, the source can be DVD player, A/V receiver, set top box and etc.	
15	Support all third party player software compatible with UVC & UAC protocols.	
16	HDMI audio input : LPCM audio signal	
17	Power consumption - 2.5w	
18	Working temperature - 0 - 70 Degree celsius	

Sachindra Chandra Kar, Finance Officer, Email: sachindrakar@yahoo.in, Mobile No: 9432747119

19	Signal Indicator : When the device captures video normally, the indicator lights up
20	Power indicator - When the device is connected to the USB port of the computer, the indicator lights up
21	Do not use HUB or USB extension line
22	Low computer configuration can cause irregular flicker or black screen of recording picture

SL No	Tablet (Realme/Samsung/Vivo/Oppo)	
	Technical Specification	
1	Processor	CPU: 12nm process, Octa-core, A75 2GHz ×2, A55 1.8GHz ×6, GPU: G57
2	Storage & RAM	3/4GB + 32/64GB
3	Display	Size: 8.7inches,Resolution: 1340*800, Colour: 16.7 million colours
4	Charging & Battery	6400mAh Mega Battery
4	Network	GSM:850/900/1800/1900MHz,WCDMA:Bands 1/5/8,FDD-LTE:Bands 1/3/5/7/8/20/28,TD-LTE:Bands 38/40/41 （2496-2690MHz）
5	Connectivity	WLAN: 2.4/5GHz,IEEE802.11 a/b/g/n/ac,Support GSM/WCDMA/LTE FDD/TD-
6	Operating System	Android 11
	IR sensor	
1	It has a Wi-fi enabled system	
2	universal IR blaster that can easily connect and work with almost all the electrical appliances	

SL No	Online Software(Zoom /Google meet/ Webex)
1	Should be Connect 100 participants
2	Using the new meeting chat experience
3	Should be viewing sign language interpretation
4	Should be Declining a meeting invite with a message
5	Should be viewing captions in another language
6	Taking the end-of-meeting experience feedback survey
7	Should be Participant controls in a meeting
8	Waiting for the host to start meeting/webinar
9	Chatting in a meeting
10	Sending a file in meetings
11	Participating in breakout rooms
12	Hot keys and keyboard shortcuts
13	See or Hide My Video
14	See My Video
15	Hide My Video

SL NO	Cable and Accessories (Ekin/Aten/Kramer/Xtron)	
	Technical Specification	
	10 mtr USB 3G Cable for Camera	
1	Ambient temperature	-25°C ~ + 70°C
2	Insulation resistance	≥100 MΩ
3	Contacts resistance	≤5mΩ

4	Insert/ Housing	PBT
5	Orientation	Straight
6	Wire Termination	Soldering
7	Cable jacket material	PVC
8	Connection type	Double ended cable
9	Reference Standard	USB3.0
10	Overmold/ Shell	PVC/TPU
11	Rated current	1.8 A
	HDMI Cable 2.0	
1	Conductor	Bare copper
2	Jacket	PVC
3	Connector	HDMI Plug 19P, Durable 24K gold plated
4	Housing	PVC moulded with metal shell
5	Shielding	Aluminum foil and Braiding
6	Color	Black
7	Ferrite core	Yes
8	Application	widely used in HDTV, EVD, HDVD, AMP, Home Theater, DVD player, projector, PS3, Xbox360, set-top boxes, Video wall etc.
	HDMI Extender 60mtr	
1	Support HDMI 1.3 protocol	
2	HDCP 1.2 protocol compliant	
3	Support video input : 24 / 50 / 60fs / 1080p / 1080i / 720p / 576p / 576i / 480p / 480i	
4	Signal tranmission :Double cat-5e or cat-6(recommended) cables up to 60 metres instead of HDMI calbes are connected between TX and RX Extender.	
5	Support video output : 24 / 50 / 60fs / 1080p / 1080i / 720p / 576p / 576i / 480p / 480i	
6	Support CEC	
7	Audio format support : DTS-HD/Dolby-trueHD / LPCM7.1 / DTS / Dolby-AC3 / DSD	
8	LED indication : when power is supplied or device is working, LED relative to is light.	
9	Support up to 20metres AWG26 cable length between extender and source&sink device	
10	No loss of quality	
11	Installs in minutes	
12	Need DC DC5V/2A power supply	
13	Signal Inputs/Output	
14	Input video signal	0.5 to 1.0Vp-p
	Output video	1.2a 1.3b
	Video format supported	
15	DTV/HDTV	480i / 576i / 480p / 576p / 720p / 1080i / 1080p
	Transmission distance	CAT-6 cable, 60M for 1080p CAT-5 cable, 50M for 1080P
	Operating frequency	
16	Video amplifier bandwidth	1.65Gpbs/165MHz
	Vertical frequency range	50/60Hz
	Resolutions (HDTV)	
	Interlaced	480p, 567p, 1080i (50 and 60Hz)
	Progressive	480p, 576p, 720p, 1080p (50 and 60Hz)

	Network Cable (OEM Maid)	
1	Tested and verified to TIA/EIA 568C.2 Cat6A component specification : Ensures Category 6A component & channel performance.	
2	Every cord is factory tested: Ensures every cord shipped will perform to Cat 6A specifications.	
3	Center tuned technology: Elevates the performance of Clarity 6A connector union.	
4	Paralign 2 pair-positioning technology: Maintains pair integrity and balance through the plug termination.	
5	Snagless plug design: Protects plugs when pulling through pathways or cable managers.	
6	Premium conductor cordage: Reliable performance and durable cord life	
7	Compatible with both T568A and T568B wiring: Provides universal wiring ability.	
8	Improved signal to noise ratio: More transparent signal path is field measurable in a link or channel.	
9	Backwards compatible to Category 6 & 5e: Supports lower category installations and components.	
10	Pinning	Straight 1-1, 2-2, 3-3, etc.
11	Min Bend Radius	1.20"
12	Connector Type End One	Plug, HSG, eight-contact, RJ45, high performance with Cat6A internal barrier
13	Jacket Rating	CMR
14	Cord Length Metric	6.096 m
15	Cord Length	1, 2, 3 meters
16	Connector Type End Two	Plug, HSG, eight-contact, RJ45, high performance with Cat6A internal barrie
17	General Info	Clarity
18	Product Series	Patch Cord
19	Type	Four-pair stranded SSTP CMR/non-plenum
20	Cable Type	Four-pair stranded SSTP CMR/non-plenum
21	Performance Category	Cat 6A component compliant
22	Color Cable Jacket	Grey
23	Termination	8-Pos Mod
24	Typical Applications	IEEE 802.3 10GBase-T, 1000Base-T (Gigabit Ethernet), TIA/EIA-854 1000Base-TX, ATM CB1G
25	Category Rating	Cat 6A component compliant
26	Performance Rating	Category 6A , 10G SSTP / SLZH
	PPT Presenter (Ekin/Logitech)	
1	Wireless Laser Presenter Powerpoint PPT Presenter Slide Changer Controller with USB Receiver Battery Indicator	

Finance Officer
Netaji Subhas Open University
DD-26, Sector -1, Salt Lake, Kolkata-700064
Email: sachindrakar@yahoo.in
Mobile No: 9432747119

ANNEXURE – III

GENERAL TERMS & CONDITIONS

1. The bidders are to participate in the bidding process for the Tender only online at s://www.wbtenders.gov.in. as per prescribed formats.

2. Price should be including GST

3. Price shall be quoted in INR only.

4. Incomplete and Conditional Bids will be summarily rejected without assigning any reasons thereof.

5. Tenders must be submitted in two Separate Bids- (1) Technical Bid covering all the credentials noted above, (2) Financial Bid as specified in Annexure - II. The Technical Bid, if found suitable to meet the specifications noted above, will be followed by Financial Bid.

6. Details of items like Brand, Model,specification of item, brand name, model name & no.,quanity, service centre, Pictures/drawings etc. must be attached in Financial Bid.

7. Quantity of itmes to be supplied may vary at the time of order.

8. The Bidders should qoute all the items (Partial bidding will not be considered).

9. The sum of all items would be taken into consideration to have LOWEST QUOTATION.

10. The judicature of any legal disputes will be under the Hon'ble High Court, Calcutta.

11. The Authority of NETAJI SUBHAS OPEN UNIVERSITY reserves the right to reject the entire bid received without assigning any reason thereof.

12. The applicant bidders to participate in the bidding process are to fill in the following Formats given in the page No. 17 and BOQ.

The Finance Officer
Netaji Subhas Open University
DD 26, Sector – 1, Salt Lake
Kolkata – 700064

To
The Finance Officer
Netaji Subhas Open University
DD 26, Sector – 1, Salt Lake
Kolkata – 700064

Ref: Memo No: AC/003/23-24 Dated: 05-04-2023
Sub: Submission of Bid – Technical & Financial with reference to the above.
Sir,

   As per guidelines given in the Tender Notice we are quoting the itemwise value and the total amount in the prescribed BOQ format in the Financial bid along with the Technical Credentials supported with relevant documents as applicable. We have read all the terms and conditions given in the Tender Notice and do hereby undertake to obey the rules and regulations of e-Tender.

 With regards

Signature with Seal & Date:

Name of Signatory:

Name of Organization:

Mailing Address:

Mobile No of Contact Person:

Email Address of the Organization:

Enclosures:
1. Copy of GST Registration Certificate
2. Copy of PAN & TAN
3. Copy of Experience in similar type of supply as specified in Annexure II.
4. Details of Product to be supplied i.e Model name, Model No. , Brand, warranty, Service Centre etc.

5. Documents in support of Turnover as mentioned in Anexxure-I
6. Related certificates as mentioned in Annexure-I
7. Credential of supply of similar type of items as per Tender Notice to the Educational Institute/Government office

8. 5 years Experience in similar type of supply as specified in Annexure II
9. Proof of local office within 100 km. from the delivery location for better support and services.

Sachindra Chandra Kar, Finance Officer, Email: sachindrakar@yahoo.in, Mobile No: 9432747119

Check List

Sl. No.	Particulars	Put Y if yes / N if No
1	5 years Experience in similar type of supply as specified in Annexure II	
2	Credential of supply of similar type of items as per Tender Notice to the Educational Institute/Government office	
3	Authorization of Interactive Flat Panel,CPU,PTZ	
4	Annual turnover of minimum 5 crores per year for last 3 Financial Year(i.e. 2021-22,2020-21 & 2019-20)	
5	Local office within 100 km. for better support and services.	
6	14001:2015,18001:2017,45001:2018,50001:2018,9001:2015.	
7	Componenets like IFP ,Camera should have CE, ROHS, FCC , Bis Certificate	
8	Major Componenets like IFP , Camera have NSIC Certificate.	
9	Legal compliance such as: (1) GST Number, (2) PAN / TAN , (3) Trade License.	
10	Quoted all the items	

With regards

Signature with Seal & Date:

Name of Signatory:

Name of Organization:

Mailing Address:

Mobile No of Contact Person:

Email Address of the Organization:

Signature Not Verified

Digitally signed by SACHINDRA CHANDRA KAR
Date: 2023.04.05 15:05:42 IST
Location: West Bengal-WB

Sachindra Chandra Kar, Finance Officer, Email: sachindrakar@yahoo.in, Mobile No: 94 77 119