PANSKURA BANAMALI COLLEGE
Largest Rural Based & NAAC Accredited 'A' Grade College
P.O. - PANSKURA R.S. : DIST. - PURBA MEDINIPUR

Memo No. PBC/Virtual Classroom   Dated- 18.11.2016

Tender Notice

Sealed quotations are invited from reputed firms/distributors for the following items. Sealed Quotations must reach to the Principal, Panskura Banamali College, P.O.-Panskura R.S., Dist.-Purba Medinipur, PIN 721152 on or before 28.11.2016

Components of Virtual Smart Classroom	
Sl No	Product
1	Acer PC with Software (Zoom 3rd Party Video Conferencing), Software for virtual classroom with H.264,H.265,VP8,VP9 standards
2	EPSON EB 525W Projector with wall mount kit & cable
3	Cybernetics Interactive Whiteboard Sensor
	White board
4	Logitech Camera Long Distance 10X optical zoom for students
4	The Logitech Conference Camera
5	Zoom VC Software to enable all the videos (video from teacher camera, student camera, Interactive white board and Visualizer come in the same screen)
6	AHUJA all in One Sound System consisting of 120 W amplifier with 2 Wall Mount speaker, 1 no lapel Mic, two wireless Mics, & pre-amplifier output to PC.

SOFTWARE TECHNICAL SPECIFICATIONS:-

COMPONENT	FEATURES
Software	50 interactive video participants (add-ons for larger meetings available up to 500). Participants join from mobile, tablet, desktop, H.323/SIP room systems, telephone, and Zoom Rooms. Audio options for attendees (VoIP, Call-In, Call-Out, and Global Toll-Free available) Share any content, including video clips with audio Video Breakout Rooms for small group work Record your meetings – local or cloud, MP4 and M4A Personal meeting URL Works with Skype for Business and Slack Mobile apps that allow you to schedule, start, or join a meeting – even present content from your phone or tablet Completely secure with end-to-end encryption

Short Throw Projector

Short Throw Projector	
Parameter	**Specifications**
LCD Panel Size	0.59-inch with MLA (D8)
Through Ratio	0.48 (Zoom:Wide), 0.65 (Zoom:Tele)
Projection System	Epson 3LCD, 3-chip technology
Screen Size	39" to 116"
Projection Distance	87" screen 0.91 m
Resolution	WXGA
Contrast Ratio	16,000:1

Interactive Device and white board

S.N	Parameter	Specifications
1	Interactive Area	Turn any surface into an Interactive White Board.
2	Touch Calibration	Automatic as well as Manual Calibration
3	Movement Detection Tech.	3D-Optical

4	Active Area(max projection size)	Upto 90 inches (EyeRIS 8090 UST) & 120 inches (EyeRIS 8120 ST) diagonal
5	Active Area(horizontal angle) Active Area(vertical angle)	+/-30 degrees 0-120 degrees
6	Calibration Technology	Infrared Positioning
7	Active Distance from projection	0.8-2m
8	Connectivity Interface	USB 2.0
9	Power Requirement	5V

10	Power Consumption	<1 W
11	Weight	Not more than 75g
12	Movement Detection Tech.	LED
13	Electric quantity	400 mAh
14	Interactive Pen	2 nos with inbuilt rechargeable lithium battery
15	Projection Size (Distance between Receiver and Projection Surface)	
16	Long Focus 100 inch	2.38m
17	Short Focus 100 inch	140m
18	Simultaneous Touch Point Support	255
19	Response Time	195Mn dots/sec

Camera 10X optical zoom for students (Without this the video of students would not be visible)

S.N	Parameter	Specifications
1	Sensor	The camera sensor should be 1/3" Color CMOS or better.
2	Resolution	Full HD 1080p @ 30fps
2	Gain	The camera should have an auto Gain Control
3	Back Light Compensation	The camera should have a selectable Back-light compensation
4	S/N ratio	The camera should have a S/N Ratio of >50db.
5	Iris	The camera should have an Auto/Manual Iris
6	Optical Zoom	10x lossless HD zoom
7	Video Interface	The camera should have a standard Video Output either through
8	Image Compression	H.264 UVC 1.5 with Scalable Video Coding (SVC)
9	Control Port	The camera should have an RS 232 port for Communication, EIA/RS-232（Bidirectional）
11	Presets	The camera should have at least 40 Position Presets
12	Field of View	90° Field of View
12	Pan Range	The camera should have a Pan Rotation Angle 260°pan
13	Tilt Range	The camera should have a Tilt Rotation Angle of 130° tilt

14	**Accessory**	The camera should be supplied with IR remote control as an included accessory.

Camera for teacher

S.N	**Parameter**	Specifications
1	**Sensor**	Should have True Colored 16:9 HD CMOS Sensor
2	**Focus**	The camera should be Focus free
	Lens	Carl Zeiss® len
3	**Resolution**	HD 1920 x 1080
4	**Viewing Angle**	78-degree FOV
5	**Interface**	The system should have a USB 2.0 or better interface
9	**Power**	The System should be USB Powered

Sound System

S.NO	Parameter	Specifications
	Speaker for Virtual Classroom	
1	Speaker size	woofer size 163mm
	RMS	It should have an RMS Output of 60 W
	Nominal Impedance:	8 ohms, 100 V
	Frequency Range	85 Hz to 22 kHz
	Maximum Output	It should have a Peak Output of 100W
2	120 Watts-AC&12VDC Operation of Amplifier	
	USB	It should support SD/MMC/USB
	Microphone input	It should support 5 Microphone Input
	Aux IN	It should have Aux input Port
	Line Output	For PC
	Master Volume	It should have separate Master Volume Knob
3	Wire Less Microphone for Virtual Classroom	
	Microphone priority	It should have Microphone Priority
	Microphone frequency	20 Hz to 20 kHz range
	Wireless Microphone	2 Wireless hand held Mic
	Hand-Held TX	15mW(max.), FM, 50-15000 Hz.
	Receiver	Telescopic Antenna with >100dB SNR
5	Rechargeable Battery	The Tie-Clip TX should have powered 12V battery backup

Desktop Computer for Software Installation & recording Sessions:

S.N	Parameter	Specifications
1	Processor	Intel i5 processor
2	Motherboard	Compatible Chipset
3	Memory	16 GB DDR3 – 1600 Mhz
4	Hard disk	500 GB SATA, 7200 RPM
5	Network interface	10/100/1000 Mbps
6	Optical drive	16x DVW-RW
7	Graphics	On Board HD Graphics
8	Audio Controller	On Board Audio Controller

One Media Projector (Aver or any other make)