

कार्यालय आयुक्त उच्च शिक्षा, सतपुडा भवन पांचवीं मंजिल
भोपाल - 462004 (म प्र)

क्रमांक ० ४/212/आउशि/आईटी/2020

दिनांक 06.01.2021

प्रति

प्राचार्य संलग्न सूची अनुसार (Annexure-1)

शासकीय महाविद्यालय मध्य प्रदेश

विषय: आत्म निर्भर मध्य प्रदेश योजना के अंतर्गत ऑन लाइन वर्चुअल कक्षाओं के संबंध में

उपरोक्त विषयांतर्गत आत्म निर्भर मध्य प्रदेश योजना के अंतर्गत ऑन लाइन वर्चुअल कक्षाओं का विस्तार किया जाना है। इस योजना की अवधारणा यह है कि एक से अधिक टीचिंग केन्द्रों एवं रिसीविंग केन्द्रों का नेटवर्क तैयार किया जाए एवं विद्यार्थी अपनी रुचि एवं आवश्यकतानुसार किसी भी टीचिंग केन्द्र से प्रसारित होने वाले व्याख्यानो को देख एवं सुन सके।

2. टीचिंग केन्द्र से आयोजित होने वाले व्याख्यान, ऑन लाइन मीटिंग प्लेटफॉर्म के माध्यम से एक लिंक के माध्यम से प्रसारित होंगे तथा उस लिंक के द्वारा महाविद्यालयीन विद्यार्थी उस व्याख्यान को रिसीव कर सकेंगे।

3. टीचिंग/रिसीविंग केन्द्र पर व्याख्यान की गुणवत्ता इंटरनेट कनेक्टिविटी एवं टीचिंग/रिसीविंग केन्द्र के सेटअप पर निर्भर करेगी। अतः प्रथम चरण में महाविद्यालयों का टीचिंग एवं रिसीविंग केन्द्र के रूप में चयन किया गया है उन्हें अपने महाविद्यालय में एक उपयुक्त कक्ष का चयन करना है जो सुरक्षित एवं सुसज्जित हो तथा प्रतिध्वनि रहित हो। चयनित कक्ष एवं उसके आसपास बाधारहित इंटरनेट कनेक्टिविटी भी सुनिश्चित करना है।

4. प्रथम चरण में संलग्न सूची अनुसार शासकीय सरोजिनी नायडू कन्या स्नातकोत्तर महाविद्यालय को टीचिंग केन्द्र एवं शेष 20 महाविद्यालयों को रिसीविंग केन्द्र के रूप में चिन्हित किया गया है। इन महाविद्यालयों को जनभागीदारी मद से ऑनलाइन वर्चुअल कक्षा का सेटअप तैयार करने हेतु निर्देशित किया जाता है। जनभागीदारी मद से सेटअप में निम्नानुसार उपकरण, सामग्री एवं व्यवस्था शामिल होगी:

4.1 For Teaching End:

- 4.1.1 Desktop computer
- 4.1.2 Laptop
- 4.1.3 PTZ web camera
- 4.1.4 Microphones with speaker
- 4.1.5 Interactive Panel

4.2 For Receiving End:

- 4.2.1 Desktop computer/Laptop
- 4.2.2 PTZ web camera
- 4.2.3 Microphones with speaker

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4.3 Internet connectivity

4.4 Proper furnished room for Teaching/Receiving end (कंडिका-3 अनुसार)

5. उपरोक्त उपकरणों के संबंध में मैप आईटी द्वारा सुझाए गए minimum technical specifications भी पत्र के साथ संलग्न किए जा रहे हैं। यदि महाविद्यालय में इन स्पेसिफिकेशन्स के अनुसार उपकरण उपलब्ध हैं एवं कार्य कर रहे हैं तो उनका उपयोग कर टीचिंग/रिसीविंग केन्द्र स्थापित किया जाए। अन्यथा स्थिति में कंडिका-4 अनुसार संपूर्ण व्यवस्था/क्रय जनभागीदारी निधि से की जाए। क्रय प्रक्रिया में भंडार क्रय नियमों का पालन किया जाए। टीचिंग केन्द्र हेतु Interactive Panel क्रय करने की शर्तों में वेन्डर द्वारा Interactive Panel के समस्त फीचर्स का उपयोग करने एवं इसके संचालन हेतु प्रशिक्षण देने संबंधी शर्त शामिल की जाए।

6. टीचिंग/रिसीविंग केन्द्र स्थापित करने की अंतिम तिथि 10 फरवरी 2021 नियत की जाती है।



(चंद्रशेखर वालिम्बे)

अपर आयुक्त प्रशासन
उच्च शिक्षा मध्य प्रदेश

पृ क्रमांक /212/आउशि/आईटी/2020

दिनांक 06.01.2021

प्रतिलिपि:

1. प्रमुख सचिव उच्च शिक्षा के स्टाफ ऑफिसर, मंत्रालय वल्लभ भवन भोपाल
2. मुख्य कार्यपालन अधिकारी मैप आईटी अरेरा हिल्स भोपाल
3. संबंधित क्षेत्रीय अतिरिक्त संचालक : कृपया संबंधित महाविद्यालयों के प्राचार्यों से समय सीमा में कार्यवाही पूर्ण कराना सुनिश्चित करें।



अपर आयुक्त प्रशासन
उच्च शिक्षा मध्य प्रदेश

Annexure-1: List of Teaching and Learning Ends: First Phase

SN	Code	Name of College	District	Division	Strength 2019-	TE/LE
1	1904	Govt Nehru P G College, Agarmalwa, Shajapur	Agar Malwa	Ujjain	2515	LE-pilot
2	3102	GOVT. GIRLS COLLEGE BETUL	Betul	Bhopal	1358	LE-pilot
3	2802	Govt. MLB Girls PG College, Bhopal	Bhopal	Bhopal	5814	LE-pilot
4	2803	Govt Sarojini Naidu Girls P G College Bhopal	Bhopal	Bhopal	5358	TE-Pilot
5	2801	Govt Adarsh Motilal Vigyan Mahavidyalaya Bhopal	Bhopal	Bhopal	3617	LE-pilot
6	2807	Govt. Benazir College, Bhopal	Bhopal	Bhopal	2371	LE-pilot
7	3602	Rajmata Sindhiya Govt Girls College Chhindwara	Chhindwara	Jabalpur	6744	LE-pilot
8	3604	Govt PENCH VALLEY COLLEGE PARASIYA	Chhindwara	Jabalpur	2440	LE-pilot
9	2002	Girls college Dewas	Dewas	Ujjain	1668	LE-pilot
10	304	Excellence college Gwalior	Gwalior	Gwalior	5470	LE-pilot
11	3210	Govt Mahatma Gandhi Smrati College Itarsi, Hoshangabad	Hoshangabad	Bhopal	3283	LE-pilot
12	2302	Gov Arts and Commerce College Indore	Indore	Indore	8716	LE-pilot
13	2307	Bherulal Patidar Govt P G College, Mhow	Indore	Indore	4866	LE-pilot
14	3304	Govt M K B Arts and Commerce College Jabalpur	Jabalpur	Jabalpur	3158	LE-pilot
15	2402	Govt Girls College Khargone	Khargone	Indore	1958	LE-pilot
16	3401	Govt P G College narshingpur	Narsinghpur	Jabalpur	5746	LE-pilot
17	1301	Govt Model Adarsh Science College Rewa	Rewa	Rewa	2838	LE-pilot
18	1007	Govt.P.G.College, Bina	Sagar	Sagar	1644	LE-pilot
19	1502	Govt. Girls PG College Sidhi	Sidhi	Rewa	2114	LE-pilot
20	1811	Govt Madhav Arts and Commerce College Ujjain	Ujjain	Ujjain	5345	LE-pilot
21	1801	Govt Girls PG College Ujjain	Ujjain	Ujjain	2263	LE-pilot

LE-pilot=Learning End for pilot project, TE=Teaching End for pilot project

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Minimum technical specifications

USB based microphones cum speaker with built-in echo canceller for desktop based VC system

S. No.	Specifications of Desktop based Video Conferencing Equipment
1	USB based plug-n-play device to operate with various Linux OS including Ubuntu Linux & Windows Operation System
2	Good pickup of about 1.5 meters (6-7 feet) distance from the Microphone coverage of 360 Degree
3	Full Duplex Operation (Speak and listen simultaneously)
4	Built-in Echo Cancellation
5	Volume Control button for increase and decrease according to local preferences
6	Local Microphone Mute/Un-mute button with visual indication such as bi-colour LED
7	Frequency response for microphone - 200 Hz - 7 KHz or better
8	HD quality speaker output
9	3.5 mm mini phone connector to connect to external devices such as speaker and Microphones with echo cancellation
10	Upgradable Firm-ware
11	With 10 feet additional USB extension connecting cable
12	5 years Onsite Warranty

USB based PTZ web camera for desktop based VC system

S. No.	Specifications
1	USB based plug-n-play device to operate with various PCs/Laptops
2	Motorized PTZ (Pan, Tilt, Zoom)
3	180 Degrees PAN, 50 Degrees tilt and 70 Degrees Field View
4	Compliance to USB 2.0 or better
5	Full HD 1080p30 video calling (up to 1920 x 1080 pixels)
6	Thermal stabilized Lens such as Carl Zeiss® lens with autofocus/ High Precision Lens for clear picture
7	Compliant with software for video recording using H.264 codec
8	Compliant with various Linux OS including Ubuntu Linux, Windows and Mac OS systems Minimum 5 feet USB connecting cable
9	Compliant low lighting environment
10	Built-in microphones for audio pickup from distance of 5 feet

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11	Remote Controller to PTZ functions
12	10 feet additional USB extension connecting cable
13	5 years Onsite Warranty

All-in-One Computer System.

S.No.	Description	Specification
1	Category	Business (for work) segment (not Home Segment)
2	Form Factor	All in one
3	Make, Model/ Part No.	(to be given by the bidder- At the time of Technical Evaluation)
4	Processor Family	Intel Core i5 Processor with 8 th Generation or better
5	Base Frequency	3.2 Ghz or Higher
6	Processor Cache	As per Processor
7	Motherboard & Chipset	Intel Original Mother Board or equivalent Performance Chipset for quoted Processor based Mother Board
8	TDP (Thermal Design)	Not More than 65 W
9	System Memory (RAM)	4 GB, 2400 Mhz DDR-IV Memory or Higher
10	Expandable Memory	Upto 32 GB, at least 2 slots
11	Hard Disk	Integrated Dual Port SATA III controller, 1 TB, 7200 RPM or more / above
12	Preloaded Operating System	Ubuntu / Free DOS / Without OS (Ubuntu with all required drivers & plug-in)
13	Operating System certificate	Ubuntu-Linux16.04 LTS or above
14	System Architecture	64- Bit
15	Screen Size & Resolution	Non touch Screen with 21.5" (HD Resolution) or higher with OEM certification
16	Screen Type	HD Wide Screen Backlit LED Anti-Glare Display
17	Graphic Processor	Intel HD or equivalent Integrated HD Graphic & sound Controller.
18	Monitor Mounting Support	Vesa Screws Cover for Wall Mount (OPTIONAL)

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19	Web Camera	1.0 Megapixel HD Built In Webcam or Higher
20	Pointer Device & Keyboard	OEM USB Optical scrolling Mouse, OEM USB Standard 104 Keys Keyboard
21	Microphone	Digital Microphone
22	Speakers	Stereo Sound Speakers (Built-In)
23	Ethernet	Integrated Gigabit Ethernet Controller with IPv6 Complaint
24	Wireless	IEEE 802.11 b/g/n
25	USB Port	4 x USB 2.0, 2 x USSB 3.0
26	Other Ports	Mic In, Speaker Out, Rj45, VGA/HDMI/Display Port Out
27	Power Supply/ Adaptor	Internal / external power adaptor.
28	Energy Certification	Energy Star (EPA) version 5.0 or later/ BEE India Star version 1 or later
29	EPEAT Certified	Yes Required
30	Power Management	ACPI Complaint
31	USB Ports Security	USB Port Disable (through BIOS)
32	Security Lock	optional
33	Hardware Drivers	Vendor to provide for Ubuntu -Linux 16.04 LTS
34	OEM Product	Original Equipment Manufacturer (OEM) Manufacture or its authorized distributors/ dealers with OEM
35	Warranty	5 Years on site Comprehensive Warranty support with Level 1 Support from bidder and Level2 support from OEM
36	Service Centre	Must have Company Authorized Service Centre in Madhya Pradesh
39	Monitor stand	Basic Monitor stand

Laptop

S.No.	Minimum Specifications
1	Processor Intel Core i5 Processor with minimum 8 th generation or higher, Integrated Graphics, Card Reader (3M Cache, minimum 2.70 GHz) or above.
2	Operating System

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	Windows 10 Professional (64 bit) Operating
3	Display The screen to be non-touch with 14" Diagonal (Full HD) Antiglare Display and scratch resistant with Metallic Hinges.
4	Keyboard Yes, Spill resistant along with Backlit.
5	Webcam 720 P HD Webcam Dual Microphone in place of 2.0 MP-HD with Dual Microphone
6	Random Access Memory 8 GB DDR4 RAM 1600 MHz expandable up to 16 GB RAM.
7	Battery Up to 6 Hrs. (maximum at optional performance)
8	Weight Preferable less than 2.5 kg
9	WLAN 802.11 a/b/g/n and integrated module with Bluetooth 4.0
10	I/O (Input / Output) Ports Minimum four USB ports (2 x USB 3.0 & 2 x 2.0) ,Audio/Mic Combo ,1 HDMI, 1 VGA,
11	Storage 1 TB HDD (Hard Disk Drive)
12	LAN Port Gigabit LAN port 10/100/1000.
13	DVD Drive Reads and Writes to DVD/CD
14	Ethernet Native RJ45 using Ethernet Connector
15	Audio Integrated Multimedia capabilities with Speaker (preferable dual speaker).
16	Antivirus Anti viruses of reputed brand (Quick Heal, Norton, McAfee & Bit Defender etc.) with Five year validity.

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17	Energy Star certification 5.0 or above / BEE versions 1.0 or above.
18	5 years Onsite Warranty

Interactive Panel

S.No	Parameter	Specification
1	Display Type	LCD
2	Display Panel Diagonal size (mm)	1892
3	Width of The Effective Display Area of The Panel (mm)	1665.66
4	Height of The Effective Display Area of The Panel (mm)	944.73
5	Backlight Technology	LED
6	Display Resolution (Pixels)	3840X2160
7	Display Brightness (Nits)	500
8	Touch interface	Touch sensitive as well as pen driven
9	Touch Technology	Infrared optical
10	Number of touch points (Number)	10
11	Response time (milli seconds)	4
12	Provision of in built speakers	Yes
13	On Site OEM Warranty (Year)	1
14	Display Aspect Ratio	16:09
15	Operating System Compatibility	Win/LinuxTouchOn/Off
16	Number of Input HDMI ports	3
17	Number of USB 2.0 ports (Nos.)	3
18	Number of USB 3.0 ports (Nos.)	4
19	Number of Audio Input ports (Number)	1
20	Number of audio output ports (Nos.)	2
21	Number of RS-232 C ports (Nos.)	1
22	Number of RJ 45 ports (Nos.)	1
23	Number of VGA-IN ports (Number)	1
24	Number of VGA-OUT ports (Number)	0
25	Provision for wall mounting	Yes
26	Bluetooth connectivity	Yes
27	Wi-Fi connectivity	Yes
28	Number of electronic pen or stylus to be supplied with the board (Nos)	2
29	Details of software provided	Int.S/w2mmTippedPen
30	Power Supply Voltage in AC (Volts)	100-240
31	Power consumption (Watts)	140
32	Operating Temperature Range (degree celsius)	0-40,4WaySplitScreen
33	Operating Humidity (%)RH	80,HDMIOutMirroring
34	Installation Kit to be supplied alongwith the Panel	Yes

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35	All connecting Cables and accessories to be supplied along with the Panel	Yes
36	Industry Certifications	Yes
37	Screen	Screen to prevent light reflection and providing smooth touch experience with antiglare technology. Touch screen should have toughened glass material preventing any damage to the touch panels.
38	Warranty	5 years Onsite Warranty

Note: All of the above specifications should be read as equivalent or better.

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