



**MAHATMA GANDHI UNIVERSITY**  
**CENTRE FOR YOGA AND NATUROPATHY (CYN)**  
 Priyadarshini Hills (Post), Kottayam- 686560, Kerala, India  
 E mail: cyn.mgu@gmail.com, Web site: www.cyn.mgu.ac.in



CAC/CYN/184/2024

09.01.2024

**SHORT QUOTATION NOTICE**

Quotations are invited for the **Desktop and Laptop, Interactive Panels, Printer, and Projector** as detailed below for the use of the Centre for Yoga & Naturopathy, Convergence Academia Complex, M.G. University, Kottayam, so as to reach the office of the undersigned not later than January 16, 2023, before 2.00 p.m.

**Item No.1 DESKTOP AND LAPTOP**

	<b>Desktop - Administrative</b>	<b>Desktop - Teaching &amp; Learning</b>	<b>Desktop - High Spec (Special Purpose)</b>	<b>Laptop</b>	<b>Remarks</b>
Form factor (design)	Mini	Standard	Standard	N/A	
Processor	10 Gen or above Intel Core i3	10 Gen or above Intel Core i5	10 Gen or above Intel Core i7	10 Gen or above Intel Core i5	
Number of cores (min)	4	4	4	4	

Chipset	400 - 500 series	400 - 500 series	400 - 500 series	400 - 500 series
Memory	8 GB	8 GB	16 GB	8 GB
Memory Type	DDR4	DDR4	DDR4	DDR4
Display	18" - HDMI	18" - HDMI	18" - HDMI	13" or above
Display Resolution (min)	1920x1080 @ 60Hz	1920x1080 @ 60Hz	1920x1080 @ 60Hz	1920x1080 @ 60Hz
Additional Display Slot	Good to have	Good to have	Multi monitor support (graphics card)	HDMI
Graphics	Integrate d graphics	Intel HD integrated graphics, or discrete graphics card (NVIDIA)	PCIe x16 slot, Power supply to support graphics cars, 4GB Card	Intel HD integrated graphics, or discrete graphics card (NVIDIA)
Storage	256GB Solid State Drive (SSD)	512 SSD + 1TB HDD	512 SSD + 1TB HDD	256GB Solid State Drive (SSD)
Audio	headpho ne/ speaker jack	headphone/ speaker jack, line-in and line-out mic jacks, optional digital I/O	headphone/ speaker jack, line-in and line-out mic jacks, optional digital I/O	headphone/speaker jack

Connectivity	RJ 45, WiFi	RJ 45, WiFi	RJ 45, WiFi, Bluetooth	Wifi (RJ45 - good to have)
Number of USB ports	4	4	4	4
Mouse & Keyboard	USB optical Mouse, Standard Keyboard - (Wired)	USB optical Mouse, Standard Keyboard - (Wired)	USB optical Mouse, Standard Keyboard - (Wired)	N/A
Operating System (preferably Ubuntu, unless there is a special requirement)	Ubuntu	Windows 10 Home (pro edition for special purposes) / Ubuntu	Windows 11 Pro / Ubuntu	Windows 10 Home (pro edition for special purposes) / Ubuntu
Security		Antivirus 24 months subscription - (for windows OS)	Antivirus 24 months subscription - (for windows OS)	Antivirus 24 months subscription - (for windows OS)
On Site Warranty (in Years)	5 years (3 +2)	5 years (3+2)	5 years (3+2)	5 years (3+2)
Certification	The system should have FCC, CE, ROHS,	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star will be	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star will be	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star will be added advantage, ISO 9001, 14001, 27001 for OEM

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 OEM 27001 for OEM 27001 for OEM

**Item No.2 INTERACTIVE PANELS**

Resolution	3840 X 2160	3840 X 2160	3840 X 2160
Number of Colours	1.07B (10-bit)	1.07B (10-bit)	1.07B (10-bit)
Viewing Angle	178/178	178/178	178/178
Sensing Type	Infrared 20 points	Infrared 20 points	Infrared 20 points
Surface Protection	Toughened glass Level 7 MOHS Std.	Toughened glass Level 7 MOHS Std.	Toughened glass Level 7 MOHS Std.
Processor	Intel H110 Express 7th generation i5, Upgradable	Intel H110 Express 7th generation i5, Upgradable	Intel H110 Express 7th generation i5, Upgradable
Networking	10/100/1000M Adaptation	10/100/1000M Adaptation	10/100/1000M Adaptation

Memory -	4GB DDR4, Upgradable	4GB DDR4, Upgradable	4GB DDR4, Upgradable
Hard Drive	256 GB SATA, Upgradable	256 GB SATA, Upgradable	256 GB SATA, Upgradable
Connectivity	Bluetooth 4.0, Wi-Fi 2.4Ghz and 5.0 Ghz, Ethernet,USB, HDMI (3 ports) ,S-Video, VGA, Audio	Bluetooth 4.0, Wi-Fi 2.4Ghz and 5.0 Ghz, Ethernet,USB, HDMI (3 ports) ,S-Video, VGA, Audio	Bluetooth 4.0, Wi-Fi 2.4Ghz and 5.0 Ghz, Ethernet,USB, HDMI (3 ports) ,S-Video, VGA, Audio
OS	android 11 or higher	android 11 or higher	android 11 or higher
For Windows OS - OPS(Open Pluggable Specification)	Intel Core i3 10110U Dual Core (4 Thread), 2.10Ghz (4.10Ghz Turbo), 4MB Cache   8GB DDR4   256GB SSD   Intel® UHD Graphics for 10th Gen Intel Processors Supports DirectX 12, OpenGL 4.5   1x USB 2.0 Type A, 1x USB 3.0 Type A, 2x USB 3.1 Type A, 1x USB 3.1 Type C, 1x HDMI 2.0 (4K @ 60Hz), 1x 3.5mm Line Out, 1x 3.5mm Mic In, 2x WIFI/BT Antenna   Intel® AX (802.11a/b/g/b/ac/ax) WiFi Dual band (2.4Ghz and 5.0ghz) Bluetooth 5.0	Intel Core i3 10110U Dual Core (4 Thread), 2.10Ghz (4.10Ghz Turbo), 4MB Cache   8GB DDR4   256GB SSD   Intel® UHD Graphics for 10th Gen Intel Processors Supports DirectX 12, OpenGL 4.5   1x USB 2.0 Type A, 1x USB 3.0 Type A, 2x USB 3.1 Type A, 1x USB 3.1 Type C, 1x HDMI 2.0 (4K @ 60Hz), 1x 3.5mm Line Out, 1x 3.5mm Mic In, 2x WIFI/BT Antenna   Intel® AX (802.11a/b/g/b/ac/ax) WiFi Dual band (2.4Ghz and 5.0ghz) Bluetooth 5.0	Intel Core i3 10110U Dual Core (4 Thread), 2.10Ghz (4.10Ghz Turbo), 4MB Cache   8GB DDR4   256GB SSD   Intel® UHD Graphics for 10th Gen Intel Processors Supports DirectX 12, OpenGL 4.5   1x USB 2.0 Type A, 1x USB 3.0 Type A, 2x USB 3.1 Type A, 1x USB 3.1 Type C, 1x HDMI 2.0 (4K @ 60Hz), 1x 3.5mm Line Out, 1x 3.5mm Mic In, 2x WIFI/BT Antenna   Intel® AX (802.11a/b/g/b/ac/ax) WiFi Dual band (2.4Ghz and 5.0ghz) Bluetooth 5.0

Power	100V-240V AC 50/60HZ	100V-240V AC 50/60HZ	Bluetooth 5.0   100V-240V AC 50/60HZ
Security	Antivirus 24 months subscription - (if windows)	Antivirus 24 months subscription - (if windows)	Antivirus 24 months subscription - (if windows)
On Site OEM Warranty (Year)	5 years	5 years	5 years
Certification	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star (92% efficient PSU or better), ISO 9001, 14001, 27001 for OEM	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star (92% efficient PSU or better), ISO 9001, 14001, 27001 for OEM	The system should have FCC, CE, ROHS, UL, EPEAT India Energy Star (92% efficient PSU or better), ISO 9001, 14001, 27001 for OEM
Cable requirements	One HDMI 1.4 compliant or better Maximum length: 7 m), one 3m USB cable and one 7m VGA Cable	One HDMI 1.4 compliant or better Maximum length: 7 m), one 3m USB cable and one 7m VGA Cable	One HDMI 1.4 compliant or better Maximum length: 7 m), one 3m USB cable and one 7m VGA Cable
On Site Warranty (in Years)	5 years (3 +2)	5 years (3 +2)	5 years (3 +2)

### **Item No.3 PRINTER**

	Mono Basic Printer
Function	Print
Printer Type	Laser/Inktank(inkjet)
Printing Speed	23 PPM or higher
Print Quality Black	600 dpi × 600 dpi, HQ1200 (2400 dpi × 600 dpi) quality
Connectivity Interfaces	Ethernet & USB port
Number of trays	
Output tray capacity	100 sheets or more
Input tray capacity	150 Pages or more
Paper Size Supported	A4
OS Supported	Linux & Windows
Duplex Printing	Yes
Scan (bed type) - A4	N/A
Copy	N/A
Multiple Copies	N/A

Enlarge/Reduce N/A

On Site Warranty (in Years) 3 years

Expected print life

**Item No.4 Projector**

<b>Specification</b>	<b>Normal (Long Throw)</b>	<b>Short Throw</b>	<b>Remarks</b>
Viewers	20-30	20-30	* The LED projector has a lifespan of over 20,000 hours, delivers better colors, and potentially have light maintenance cost * For classroom purpose LCD may be suggested * For auditoriums Laser is recommended
Projection Type	LCD/LED/LAZER	LCD/LED/LAZER	



Distance from screen	6-10 feet	3-5 feet	
projection size ranges	75 Inches or above	75 Inches or above	
Lumenance	For brighter rooms with larger windows recommended min brightness of 3,500 lumens	For brighter rooms with larger windows recommended min brightness of 3,500 lumens	selecting lumens depends on the structure of the room
Display Resolution	1920X1080 Full HD	1920X1080 Full HD	
Start-Up Period	Start-Up Period: ~ 8 seconds, Warm-up Period: ~ 30 seconds	Start-Up Period: ~ 8 seconds, Warm-up Period: ~ 30 seconds	
Connectivity	HDMI (2 ports), VGA (optional), USB, RJ 45	HDMI (2 ports), VGA (optional), USB, RJ 45, WiFi	
Mounting Type	Table Top (ceiling mount will be added advantage)	ceiling mount, 10m HDMI Cable and power cable	
WiFi	Optional	Required	
On Site Warranty (in Years)	3 years	3 years	

Last date & time for the receipt of Quotation : 16.01.2024 before  
2.00pm

Date and time of opening of Quotation : 16.01.2023 after 3.00pm

Sealed Envelope containing quotation shall be addressed to **Honorary Director, Center for Yoga & Naturopathy, Convergence Academia Complex, M G University, Kottayam**

**Contact details: Hon. Director: Dr. C.R. Harilakshmeendra Kumar, Ph: 9447569925**

### **General Conditions**

1. The brand name of the goods supplied should be mentioned separately in the quotation. GST number of the organization should also be mentioned separately in the quotation.
2. All taxes, packing, transportation charges, installation charges etc. should be included.
3. The Hardware Engineer of the University will check and ensure the quality of the materials mentioned in the quotation.
4. On approval of the quotation, the firm concerned shall complete the supply within one week from the date of the supply order.
5. Quotations received after the last date of submission will not be considered.
6. The right to accept or reject quotations without assigning any reason rests entirely with the undersigned.
7. If the notified last date of receipt and opening of quotations happens to be a holiday, the next working day shall be the last date for this purpose.

Sd/-

**Dr. C.R. Harilakshmeendra Kumar  
Honorary Director  
Center for Yoga & Naturopathy**

Copy to:-

- 1.IT Cell ( for Uploading in the University Website)
- 2.Director, CYN
- 3.CACSN