COLLEGE OF VOCATIONAL STUDIES
(UNIVERSITY OF DELHI)
TRIVENI (SHEIKH SARAI), PHASE-II,
NEW DELHI-110017

TENDER DOCUMENT FOR SUPPLY & INSTALLATION OF INTERACTIVE PANEL WITH VIDEO CONFERENCING SYSTEM, DESKTOP AND LAPTOP

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COLLEGE OF VOCATIONAL STUDIES
(UNIVERSITY OF DELHI)
TRIVENI (SHEIKH SARAI) PHASE-II,
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GEM BOQ TENDER FOR BUNCH BIDDING
FOR
SUPPLY & INSTALLATION OF INTERACTIVE PANEL WITH VIDEO CONFERENCING SYSTEM,
DESKTOP AND LAPTOP

NOTICE INVITING BID

College of Vocational Studies invites GeM bid for purchase of, 01 video conferencing system, 02 Interactive Panels, 03 Laptop and 25 desktops, etc. from authorized distributors/dealers for supply and installation at site within three days of the issue of work order.

Tender documents may be downloaded from College and University of Delhi Website i.e. www.cvs.edu.in & www.du.ac.in respectively.

General Terms and Condition:

1. Bid submission: bids shall be submitted online only at **GeM Portal.**

2. Not more than one tender shall be submitted by one supplier having business relationship. Under no circumstance will father and his son(s)/ Daughter(s) or other close relations who have business relationship with one another (i.e. when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

3. Bidder who downloaded the tender from the college website **www.cvs.edu.in shall not tamper / modify the tender form including downloaded price bid template in any manner.** In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and tenderer is liable to be black listed from doing business with the College/University of Delhi.

4. **Intending tenderers are advised to keep checking the college** website **cvs.edu.in regularly till closing date of submission** of tender for any corrigendum / addendum / Amendment.

5. **The college has the right at any time, by written notice, in the form of an amendment order, increase or decrease quantity to make any changes it seems necessary, including changes in specification etc.**

6. **The college right to increase or decrease the quantity to be ordered as per rules**

7. **100 % payment shall be released upon successful commissioning of the equipment/ item on showing documents of installation or takeover.**

8. **All the hardware & software including windows, drivers, device interface cards/network adaptor card etc. must be pre-installed and pre-configured in the desktop computers.**

9. Sub-Standard material will not be accepted and the same shall be removed by the supplier at his own cost.

10. TDS will be deducted as per rules.

11. In case of award of contract/order all items will have to be delivered at the College within prescribed time.

12. Payment will be made through RTGS/NEFT/Bank Transfer Mode only after installation of the Computers.

13. The College reserves right to accept/reject/amend the tender/bid in part or full without assigning any reason thereof.

14. The price shall be quoted in Indian rupees only.

15. Technical bid and financial bid should be provided in two separate bids. The financial bid of those Vendors/Bidders will be opened who qualify technically.

Warranty

1. The bidder shall offer on-site comprehensive warranty of all the items for three years from the date of successful installation of all the items at the designated location and shall cover each and every part of all the items. The purchaser is not liable pay any extra charges on any account during warranty period.
2. The bidder will not charge any extra charges on any account during warranty period.
3. If any part or parts fails / proves defective within the on-site warranty period specified above, owing to defect in design, material or workmanship, the bidder shall have to replace them at the earliest, but not later than 15 days.
4. During the warranty period, experts shall be deputed at site by the bidder within three working days from the date of request from purchaser, to rectify and fix the defects of all desktops computers at the location supplied.

Terms and conditions (Technical)

1. OEM participating in the Bid must have Company Registration Certificates required
2. OEM majority shareholding must be owned by people of Indian origin. AND/OR OEM must not have any shareholding from any country that shares the border with India Company Registration Certificates must be uploaded.
3. OEM must have proven track record of supplying smart classroom solution in not less than 20,000 Classrooms Projects in India Declaration on letter head along with PO copies must be uploaded -Declaration on letter head along with PO copies must be uploaded
4. Upload documents for the OEM of Interactive Flat Panel should have good exposure of Indian education ecosystem & should have rich experience of supplying in-classroom interactive teaching equipment across India & must have supplied in bulk
   1. At least 3 Large Govt Projects with more than 3000 classrooms.
   2. At least 5 Large Govt Project with more than 2500 Classrooms &
   3. At least 10 Large Govt projects over 1000 Classrooms each
5. OEM of Interactive Flat Panel must have their own Blended Learning Platform that must be offered along with the panel to enable the institute to run classroom smoothly wherein partial students will be inside the classroom & rest learning from home but can be able to access interactive teaching canvas simultaneously with software brochure and demo
6. OEM participating in the Bid must ensure the User's Data Security & Privacy: The OEM application servers and data hostage should be within the border of India for user's data privacy and security.
7. for support attached declaration with SLA that the Bidder/OEM participating in the bid must have service centre Pan India and Toll free no. in the support attached declaration with SLA
8. Attached certificates with this OEM must STQC/ERTL certification for the product.
9. Attached certificates with this for OEM must have certification from BIS, ISO 9001, 14001, and must have ISO 27001 for Data Security compliance for the product.

10. Declaration on letter head along with Server location Snapshots IN INDIA that the OEM participating in the Bid must own the complete IP and Source code of IFP whiteboard software & platform, software must be developed in India subject to audit.

11. Declaration on Letterhead that the Bidder/OEM participating in the bid must not have been blacklisted for fraudulent practices by any Central Government / State Government / Central PSU/ State PSU/ Government Undertakings / University/ Educational Institutions in India in the last three years and at the time of submission of the bid. Declaration on Letterhead for 3 years on-site Support by OEM

12. Declaration on Letterhead must be uploaded for OEM participating in the Bid must declare that the offered interactive panel and educational software belongs to the same OEM (software should not be sourced via some 3rd party) and will not be declared End-of-life within 5 years of installation.

13. **It is the condition of the tender that the items should be supplied and installed within 3 days after the Award of Contract.**

14. The tenderer reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid/ tender quantity at the time of placement of contract. The tenderer also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

Criteria for bidders.
1. Bidder should have Minimum average turnover of 05 cr for last 3 years - Audited balance sheet certified by Chartered Accountant
2. The Bidder should have office in Delhi with trade licence, GST etc. Declaration on Letterhead
3. The Bidder should have positive net worth in last 3 financial years. Audited balance sheet certified by Chartered Accountant
4. The bidder must have Manufactures Authorization certificate specific to this tender Certificate from OEM

Video Conferencing system

No of interactive panel for video conferencing = 01

	Minimum Technical Specifications	
Finish and Sizes	Finish	Black
	Material	Aluminum/Zinc alloy
	Available Sizes	65"
Display	Display Type, Resolution & Refresh Rate	VA Ultra HD Display 3840*2160 (pixels) with 60Hz refresh rate,
	LED View Angle	Direct LED, HDR Display, with wide viewing angle of 178°(H) / 178°(V). Designed for Clear viewing even in compact spaces.
	Led Lifetime	LED lifetime of 30,000 Hours.
	Surface	Anti-Glare Matte AG finish Surface 3mm (65"") Toughened Glass MoHS Level 7 hardness
	Contrast Ratio	1200: 1 (typ.)
	Brightness	Screen Brightness 350 nits (Max, without AG Glass), 300 nits (Typical)
Touch Technology	Technology	Advanced Infrared Technology
	Touch Points	20 Simultaneous touch points
	Touch Resolution	32767x32767
	Accuracy	±2mm
	Response Time	6 ms (typ.)
	Touch Object Size	$\geqq$ 3mm
Chipset	CPU:	ARM Cortex™ A55 Quad Core 1.4Ghz
	GPU:	Mali G52 MC1
Wireless	Bluetooth 4.0	Yes
	802.11 a/b/g/n Dual Band 2.4G and 5GHz	Yes
	Hotspot Support	Yes
Memory & Storage	RAM	4 GB
	Storage	32GB Onboard

Speakers	Stereo Speakers with Surround Sound	Front Facing, Hi-Fi, Stereo Sound output with 15W x 2, with 8Ω impedance.
		Bass reflex with dual passive radiators.
I/O Ports	Front :	USB 2.0 (2), HDMI (1), Touch USB (1), USB 3.0 (1)
	Side:	LAN IN (1), Speaker Aux (1), HDMI In (1), USB 3.0 (2), AV In (1), AV Out (1) SPDIF Out (1), Androiid USB (1)
Power Consumption	Voltage	Voltage: 100 V ~ 240 V/AC, 50/60 Hz
	Power	Max watt with OPS: 170W in 65" models, 400W in 75" Model
	StandBy	Stand-by: <0.5 W
Enviornment	Temperature	Working Temp: 0°C ~ 40°C , Storage Temp: Minus 10°C ~ 60°C,
	Humidity	Working Humidity: 20% ~ 80% RH Non-Condensing, Storage Humidity: 10% ~ 60% RH Non-Condensing
Accessories	In the box:	Remote, Power Cable, USB touch Cable, HDMI Cable (3M), User Manual, Warranty Doc, Wall Mount
Wireless Casting & screen Sharing	Native Support for Airplay & MiraCast	Yes
	Multi- Device Casting	Upto 2 Devices simultaneously
Software	Take Student Attendance from Panel	Yes
	Assign Homework to students	Yes
	Student & parent app on Playstore	Yes
Software Source Code	Panel OEM Owns IPR of Writing Software Source-Code	Yes
	Software Must be Developed in India	Yes
Security & Privacy Cloud Sever location	Face/ QR code Unlock	-
	Writing Software & file sharing cloud server must be located in India	Yes
Multi-User Collaboration	Live Multi User Collaboration with Live cursor tracking	Yes
	Host Can manage and control Writing permissions	Yes

Teaching Software spec		1. Ability to access online curated content curriculum for lessons creation 2. Import documents & multi-media in lessons, share lesson, 3. Remotely Online collaboration with student on lessons, with Options to control which student has write access. 4. Live Virtual Teaching using Audio & Video on Lesson consuming less than 1Mbps bandwidth, with option to control enable & disable Audio and video of remote students 5. Conduct live chat, polling during live class. 6. Take Student attendance for remote & in class students. 7. Create and share assignments, tests, and get analytics & insights of the student performance, 8. Always Ready to Connect to smart devices, like mobile and tablets, receive files wirelessly from mobile devices. 9. STEM Tools draw shapes, use math tools, like protractor and compass, solve equations and formulas, and simulate physics and chemistry lab experiments 10. Whiteboard: Pen, colours, Highlighter and Eraser, Multi-background, Creativity Tools, Smart Draw, Shapes, 11. Presentation Tools : Screen Curtain, Spotlight, Presentation mode 12. Productivity Tools: Media import, (Docs, sheets, PDF, slides), Stopwatch & Document Scanner, Snipping tool 13. Built-in Chrome Browser for Secure and fast browsing experience, Built-in Office Viewer App. 14. Support for installing MS Office Apps 15. Support for Android apk installation, Support for 3rd Party VC Apps like Microsoft Teams, Zoom, Google meet. 16. Infinite canvas with multi writing and palm erasing gesture support, 5 finger touch to sleep/ wake, 17. Auto Lesson Creation on Any Topic with NEP Guidelines 18. Auto Customised Lesson Plan based on Class Profile, & various levels 19. Auto Quiz Creation on Any Topic, with various level of Difficulty, 20. Auto Assignment & Homework creation on any topic & Student and Parent notification on their App.

Camera & Microphone for video conferencing system

S. No.	Specification **No. of Camera = 01**
1	Stereo Sound Output
2	360° Voice Pickup
3	Full-Duplex System
4	Noise Cancellation
5	Mic Controller
6	Two-way communication
S. No	**Speaker/Microphone for video conferencing system** **No of speaker/Microphone=01**
1	AI-enabled Camera
2	4 MEMS Mic Array
3	Auto Framing (Available in 4K)
4	Built in PC
5	Ability to download apps
6	Wireless Screen Casting
7	Ability to start video meeting on device
8	Works in USB mode
9	5X Digital Zoom
10	5m Radius Voice Capture
11	Ability to download apps
12	High Dynamic Range Function Excellent Low Illumination, Automatic Exposure Control, Automatic White Balance Control

Product Specification:
<u>Interactive Panel</u>

<u>No of Interactive Panel = 02</u>

	Minimum Technical Specifications	
Finish and Sizes	Finish	Black
	Material	Aluminum/Zinc alloy
	Available Sizes	65"
Display	Display Type, Resolution & Refresh Rate	VA Ultra HD Display 3840*2160 (pixels) with 60Hz refresh rate,
	LED View Angle	Direct LED, HDR Display, with wide viewing angle of 178°(H) / 178°(V). Designed for Clear viewing even in compact spaces.
	Led Lifetime	LED lifetime of 30,000 Hours.
	Surface	Anti-Glare Matte AG finish Surface 3mm (65"") Toughened Glass MoHS Level 7 hardness
	Contrast Ratio	1200: 1 (typ.)
	Brightness	Screen Brightness 350 nits (Max, without AG Glass), 300 nits (Typical)
Touch Technology	Technology	Advanced Infrared Technology
	Touch Points	20 Simultaneous touch points
	Touch Resolution	32767x32767
	Accuracy	±2mm
	Response Time	6 ms (typ.)
	Touch Object Size	$\geqq$ 3mm
Chipset	CPU:	ARM Cortex™ A55 Quad Core 1.4Ghz
	GPU:	Mali G52 MC1
Wireless	Bluetooth 4.0	Yes
	802.11 a/b/g/n Dual Band 2.4G and 5GHz	Yes
	Hotspot Support	Yes
	RAM	4 GB

Memory & Storage	Storage	32GB Onboard
Speakers	Stereo Speakers with Surround Sound	Front Facing, Hi-Fi, Stereo Sound output with 15W x 2, with 8Ω impedance.
		Bass reflex with dual passive radiators.
I/O Ports	Front :	USB 2.0 (2), HDMI (1), Touch USB (1), USB 3.0 (1)
	Side:	LAN IN (1), Speaker Aux (1), HDMI In (1), USB 3.0 (2), AV In (1), AV Out (1) SPDIF Out (1), Androiid USB (1)
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	Power	Max watt with OPS: 170W in 65" models, 400W in 75" Model
	StandBy	Stand-by: <0.5 W
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	Multi- Device Casting	Upto 2 Devices simultaneously
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	Assign Homework to students	Yes
	Student & parent app on Playstore	Yes
Software Source Code	Panel OEM Owns IPR of Writing Software Source-Code	Yes
	Software Must be Developed in India	Yes
Security & Privacy Cloud Sever location	Face/ QR code Unlock	-
	Writing Software & file sharing cloud server must be located in India	Yes
Multi-User Collaboration	Live Multi User Collaboration with Live cursor tracking	Yes
	Host Can manage and control Writing permissions	Yes

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For Laptop

No of Laptops=03

Processor	Intel Core i7 (12th Gen)
Chipset	Integrated in Processor
Wireless	Wi-Fi + BT
Memory	1 x 16 GB DDR4 RAM, 2 DIMM Slot on the chipset and max memory expandability 32GB
Hard Disk	512 GB SSD
Graphics	Integrated Graphics ®Intel Iris ® Xe Graphics
Display	14" FHD TN screen (Equivalent or Higher) FHD (1920 x 1080), anti-glarewith digital microphone and
Webcam	720p HD webcam or Higher
Keyboard	Backlit Keyboard
Ethernet Interface	Integrated Ethernet 10/100/1000 Ethernet Controller
Ports	1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 3 USB Type-A 5Gbps signaling rate (1 charging, 1 power); 1 AC power; 1 HDMI 2.1b; 1 stereo headphone/microphone combo jack; 1 RJ-45 ; (HDMI cable sold separately.); Optional Ports: 1 External Nano SIM slot for WWAN
Speaker / Microphones	Integrated speakers; HD audio, integrated microphone
Battery	40 to 60 Whr (3-cell)
Weight	Up to 1.4 Kg
Operating System	Microsoft Windows 11 Professional
Warranty	Standard as per the Company
Brand	HP, DELL, MICORSOFT
Chass is body	Metal/Aluminium Only.
Bag	Backpack

No. of Desktop = 25

S. No.	Technical Details	Description
1	MAKE/MODEL	Should be specified by Bidder
2	PROCESSOR	Intel i7 11700 or Higher / ryzen 7 or higher
3	CHIPSET	Commercial chipset
4	RAM	32GB DDR4 with 2 physical DIMM slots with RAM Expandable up to 64GB
5	DISPLAY	21.5" Display LED
6	GRAPHICS	Integrated
7	AUDIO	Two built-in stereo speakers in the monitor
8	STORAGE	1TB SATA HDD 7200 RPM + 256 GB SSD
9	ETHERNET CONTROLLERS	Gigabit Ethernet
10	USB PORT AND INTERFACES	Front: 2 USB2.0, 2 USB 3.1 G1, Rear: 2 USB2.0, 2 USB 3.1 G1 1 VGA,1 HDMI. Bluetooth, wifi, LAN
11	KEYBOARD & MOUSE	OEM USB keyboard 104 keys and USB Mouse
12	CHASSIS	Small form factor
13	SECURITY	BIOS Password, TPM 2.0
14	OPERATING SYSTEM (OS)	Windows 10 Pro 64 bit
15	WARRANTY	3 Years on site warranty
16	CERTIFICATION REQUIRED OEM	EPEAT Silver India, FCC, Win 10, Energy Star 8.0, CE, Met, ISO 27001, IS09001, ISO14001, SA8000: 2014, ISO 20000-1: 2018
17		OEM logo should be there on Motherboard, Monitor, Keyboard, Mouse etc.