



भारतीय प्रौद्योगिकी संस्थान तिरुपति

**Indian Institute of Technology Tirupati**

Venkatagiri Road, Yerpedu Manal, Tirupati District, AP- 517619

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### STAGE I EVALUATION APPROVAL

GeM Bid No: GeM/2022/B/2808594 dt: 02.12.2022

Date: 26.04.2023.

Name of Supply: **Supply of Audio Visual Equipment for Meeting Rooms**

Name of the Indentor & Department: **Dr Roshan Karan Srivatsav, Computer Centre.**

The tender has been published in GeM as a GeM BoQ Bid for Supply of Audio Visual Equipment for Meeting Rooms.

We have received 09 responses from the below mentioned bidders before due date & time.

1. M/s. AV Designers, Bangalore
2. M/s. Genesis IT Innovations Pvt Ltd, Bangalore
3. M/s. Global Gadgets, Chennai
4. M/s. Gurusons Communications Pvt Ltd, New Delhi
5. M/s. KS Smart Solutions Pvt Ltd, Chennai
6. M/s. S Cube Consultancy Services, Howrah
7. M/s. SEC Communications Pvt Ltd, Bangalore
8. M/s. Sigmaavit Technology Solutions Pvt Ltd, Bangalore
9. M/s. SVS Technologies, Hyderabad

The Indentor Dr Roshan Karan Srivatsav, Computer Centre along with committee has evaluated the e-bids received from the above bidders and found the below mentioned **four bidders** qualified technically in the Stage-I evaluation i.e pre-qualification evaluation as per clause 11 of the ATC document of GeM bid.

- 1) M/s. Genesis IT Innovations Pvt Ltd, Bangalore
- 2) M/s. Gurusons Communications Pvt Ltd, New Delhi
- 3) M/s. S Cube Consultancy Services, Howrah
- 4) M/s. SEC Communications Pvt Ltd, Bangalore

The clause is reproduced below for your ready reference:

**"Stage-I Evaluation (Pre-qualification criteria):** In this stage, the received bids will be evaluated as per the eligibility criteria, terms and conditions of the tender. Only the shortlisted bidders in this stage will be informed for a demo of the AV equipment. The shortlisted bidders will have to give a demo of the following equipment at IIT Tirupati Transit Campus, Yerpedu Mandal, Venkatagiri Road, Tirupati District, Andhra Pradesh – 517619 within 10 days of the receipt of mail from IIT Tirupati. The bidders are required to bring the following equipment as per the tender document (setup for the board room and senate room):

1. Camera
2. Microphone and speaker system
3. DSP Processor and Mixer as per the tender document
4. Display 75 inch "

The evaluation sheets along with the indenter recommendations are enclosed for your kind perusal & approval please. [Enclosure-1]

The Indentor recommends that the following bidders have **not qualified** for the reasons mentioned below

S No	Name of the Bidder	Reasons for disqualification
1	M/s. AV Designers, Bangalore	Not meeting the tender specifications
2	M/s. Global Gadgets, Chennai	Not meeting the annual turnover criteria
3	M/s. KS Smart Solutions Pvt Ltd, Chennai	Not meeting the tender specifications & Site Visit not done as per ATC document clause No.7
4	M/s. SigmaAvit Technology Solutions Pvt Ltd, Bangalore	Not meeting the tender specifications
5	M/s. SVS Technologies, Hyderabad	Not meeting the tender specifications

Submitted for approval for the following:

- (a) The recommendations of the evaluation may be approved please.
- (b) If approved, the recommendations of the Stage-I evaluation report may be published in our website. | b
- (c) Approval may be accorded for communicating the qualified bidders to submit the above mentioned equipment for demo within 10 days of the date of receipt of mail from the purchase section. | c

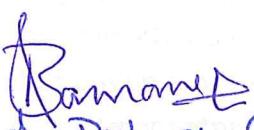
AR (P&S)

- ① The recommendations of the Stage I Evaluation may kindly be Perused and approved Please.
- ② (b) & (c) may kindly be approved Please.

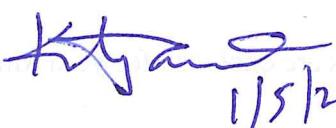
Submitted for approval Please.

d. 26/04/2023

AR [P&S]

  
Barron  
Head, Dept. of Computer Science & Engg. A.M.U. Mysore, Karnataka, India. He has been associated with the department since 2002.

Approved:

  
1/5/2023

Director

Sl. No.	Name of the document	M/s. AV DESIGNERS	M/s. GENESIS IT INNOVATIONS	M/s. Global Gadgets	M/s. ISURUSONS COMMUNICATIONS	M/s. KS SMART SOLUTIONS	M/s. SEC Consultancy	M/s. S Cube COMMUNICATI	M/s. Sigmav IT Solutions	M/s. SVS Technologies
<b>Techno-commercial part</b>										
1	Purchase Preference: (if applicable) Micro and Small Enterprises (MSEs)/ Make in India:		MSME	MSME		MII				MII
2	The minimum average annual financial turnover of 98 lakhs during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant/ Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.	Yes	Yes	Turnover not meeting	Yes	OEM Turnover is there	Yes	Yes	Yes	Yes
3	The bidder should be a Class-I/Class-II Local Supplier meeting minimum 20% local content clause in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020. A Self-Declaration Certificate regarding "Class-I & Class-II Supplier" is to be submitted.	21%	21%	21%	Class -I Supplier	21%	21%	Clarification asked through GeM	50%	
4	Any bidder from a country which shares a land border with India will be eligible to bid in this Bid only if the bidder registered with the competent authority. The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration.	NA	NA	NA	NA	NA	NA	NA	NA	NA
5	Payment Term: Within 30 days after SITC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Techno Commercial Recommendations</b>		Qualified	Qualified	Not qualified	Qualified	Partially qualified	Qualified	Qualified	Partially qualified	Qualified
<b>Technical Recommendations (As per the recommendations of the Committee)</b>		Not qualified technically	Qualified	Not qualified technically	Qualified	Not qualified technically	Qualified	Qualified	Not qualified technically	Not qualified technically
<b>Final Recommendations</b>		Not qualified	Qualified	Not qualified	Qualified	Not qualified	Qualified	Qualified	Not qualified	Not qualified

Prepared By

JA, Purchase



25/09/23



**Summary Table-GEM/2022/B/2808594**

S.NO	AV Meeting Rooms/Labs Tender Number: GEM/2022/B/2808594	M/s. AV DESIGNERS		M/s. GENESIS IT INNOVATIONS PRIVATE LIMITED		M/s. Global gadgets		M/s. GURUSONS COMMUNICATIONS PRIVATE LIMITED		M/s. KS SMART SOLUTIONS PRIVATE LIMITED		M/s. S Cube Consultancy Services		M/s. SEC COMMUNICATIONS PRIVATE LIMITED		M/s. SigmaV IT Solutions		M/s. SVS Technologies		
		Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	
1	Purchase-Techno commercial qualify	The bidder should be a Class-I/ Class-II suppliers in line with the Public Procurement (Preference to Made in India) Ordinance dated 14/12/2017- pp (D-11) dated 04 Jun 2020. A Self-Dedication Certificate regarding "Class-I/ Class-II / Non-Local suppliers" for the item to be submitted.	21%		21%		21%		21%		Class -I Supplier		21%		21%		Clarification asked through GeM		50%	
		Bidder Turn Over Criteria: The minimum average annual turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a 4 / 7 certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded for the bidder. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.	Yes		Yes		Turnover not meeting		Yes		OEM Turnover is there		Yes		Yes		Yes		Yes	
2	Site Visit	Visited	Visited	Visited	Visited	Visited	Visited	Not Visited	Visited	Visited	Visited	Visited	Visited	Visited	Visited	Visited	Visited	Visited	Visited	
3	Pre-Qualification documents	Yes		Yes		Yes		Not qualified in S.no 2	Yes		Yes		Yes		No	Shortfall of MAF Documents	No	MAF Document Not Sent		
4	Technical Recommendations	Deviation in Technical Qualification	No Mail Response For Technical Evaluation enquiry	Yes	Some minor Deviation Found	Not qualified in S.no 1		Yes		Not qualified in S.no (2 and 3)		Yes		Yes		No	Not qualified in S.no 3	No	Not qualified in S.no 3	
5	Stage 1 Evaluation as per the tender norm	Disqualified	Not qualified in S.no (4)	Qualified	In Displays, Switchers and Usb Hubs, (not in Usb Idm) ports, (Converters they are providing).It is found that these are few deviations from the specification in the tender document.However, it is found that these deviations are minor only. Overall, the bidder is found to be technically qualified.	Disqualified	Not qualified in S.no 1	Qualified		Disqualified	Not qualified in S.no (2 and 3)	Qualified	Qualified	Disqualified	Not qualified in S.no 3	Disqualified	Not qualified in S.no 3	Disqualified	Not qualified in S.no 3	

G.V.R.M.S. Subrayan  
Dr. Subrahmanyam Gorathi  
(Member)

Dr. Roshan Karan Srivastav  
(Member)

G. Ramash  
Mr. G Ramash  
(Invited Member)  
24/4/2023

Parthajit Mohapatra  
24/4/23  
Dr. Parthajit Mohapatra  
(Chairman)

M.N.V. Vinay Prad.  
Dr. Vinay Pramod Hajety  
(Member)

Mr. Chidan Mehta  
(Convenor)

Dr. G Ramakrishna  
(Member)

Technical Compliance statement				M/s. AV DESIGNERS	M/s. GENESIS IT			M/s. Global gadgets		M/s. GURUSONS												
Name of the Item : AV Equipment for Meeting Room:GEM/2022/B/2808594				Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Genesis Comments		Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	M/s. KS SMART		M/s. S Cube		M/s. SEC		M/s. SIGMAAVIT		
DISPLAYS																						
1 DSPLY85"	Type 1 : Supply Installation Testing Commissioning of 85 inches Display																					
	85" 4K UHD(3840 X 2160) IPS/VA LED display, 500 Cd/m2	Yes			Yes					Yes		Yes										
	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Digital Audio Out x 1.	Yes			Yes	Usb one only ?	This Model Has 2 USB 2.0 Ports			Yes		Yes										
	20W in built speaker, 24/7 operation, Wireless Presentation support for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto switch on fallover	Yes			Wireless Presentation support for Laptop ?	Yes				Yes		Yes										
	HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN Control, USB Auto play function,	Yes			SNMP ?, Usb auto play ?	Yes				Yes		Yes										
	Multi screen support up to 10 x 10, HTML 5.0 based browser	NA			Check ?	Yes	15x15	Tile mode setting is 15x15 higher than requested		Yes		Yes										
	Optional Windows and Android OPS support, USB Locking system for security, Built in Signage and Basic content Management Solution, with wall mount kit	Yes			USB Locking system for security ?	Yes				Yes		Yes										
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application. The said functionality shall be achieved using built in media player or with an external signage media player.	Yes			Yes					Yes		Yes										
	Sony FW-85BZ40H+ DP to HDMI adaptor				LG-86UH5J-H				LH-86QM5VS		LH-86QM5VS						LH-86QM5VS		LH-86QM5VS			
2 DSPLY75"	Type 2 : Supply Installation Testing Commissioning of 75 inches Display																					
	75" 4K UHD(3840 X 2160) IPS/VA LED display, 500 Cd/m2	Yes			Yes				Yes		Yes						Yes		Yes			
	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Digital Audio Out x	Yes			Yes	Usb one only ?	This Model Has 2 USB 2.0 Ports		Yes		Yes						Yes		Yes			
	20W in built speaker, 24/7 operation, Wireless Presentation support for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto switch on fallover	Yes			Wireless Presentation support for Laptop ?	Yes			Yes		Yes						Yes		Yes			
	HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN Control, USB Auto play function,	Yes			SNMP ?, Usb auto play ?	Yes			Yes		Yes						Yes		Yes			
	Multi screen support up to 10 x 10, HTML 5.0 based browser	NA			Check ?	Yes	15x15	Tile mode setting is 15x15 higher than requested		Yes		Yes					Yes		Yes			
	Optional Windows and Android OPS support, USB Locking system for security, Built in Signage and Basic content Management Solution, with wall mount kit where-ever applicable	Yes			usb locking ?	Yes			Yes		Yes						Yes		Yes			
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application. The said functionality shall be achieved using built in media player or with an external signage media player.	Yes			Yes				Yes		Yes						Yes		Yes			
	Sony VPL-FW75BZ40H+ DP to HDMI adaptor				LG-75UH5J-H				LH-75QM5VS		LH-75QM5VS						LH-75QM5VS		LH-75QM5VS			
3 INTRDSPLY5"	Type 3 : Supply Installation Testing Commissioning of 65 inches Interactive Display																					
	65" 4K UHD(3840 X 2160) IPS/VA LED display, 400 Cd/m2	Yes			450	nits value of display is higher than requested			Yes		Yes						Yes		Yes			
	HDMI 2.0 X 3 IN, DP1.2 / VGA IN X 1, USB X 2, HDMI Out x 1, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, IR x 1	Yes							Yes		Yes						Yes		Yes			
	Built in Multi Touch interactive display, 20W in built speaker, 16/7 or more operation	NA							Yes		Yes						Yes		Yes			
	IR based touch technology, with Anti-glare 4mm tempered glass, USB Auto play, Windows/Android, Mac OS compatible, Windows/Android OPS compatible,	NA			Panasonic meeting our requirements but Sony not matching, Panasonic MAF Not submitted	Yes			Yes		Yes						Yes		Yes			
	Optional Windows and Android OPS support, USB Locking system for security, with wall mount kit	usb locking ?			Yes				Yes		Yes						Yes		Yes			
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application. The said functionality shall be achieved using built in media player or with an external signage media player.	Yes			Yes				Yes		Yes						Yes		Yes			
	Panasonic LJH-65AT4VS/ or Sony VPL-FW65BZ40H+ DP to HDMI adaptor				LG-65TR3D3				LH-65TD3VS		LJH-65AT4VS						LJH-65AT4VS		LH-65TD3VS			
4 DSPLY55"	Type 4 : Supply Installation Testing Commissioning of 55 inches Display																					
	55" 4K UHD(3840 X 2160) IPS/VA LED display, 500 Cd/m2	Yes			700 nits	This Model is Higher Model than the Specifications mentioned in RFP, Brightness of this Model is 500 NITS whereas 500 NITS asked in RFP.			Yes		Yes					Yes		Yes				
	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1,Digital Audio Out x 1.	Yes			Yes	HDMI =2 only + one DP,Usb one only ?+ Usb C one have	WE WILL PROVIDE DP TO HDMI ADAPTER AND WE HAVE TWO USB PORTS IN THEM ONE IS TYPE C, BOTH CAN BE USED FOR DATA TRANSFER. WE WILL PROVIDE ADAPTER FOR TYPE C.		Yes		Yes					Yes		Yes				
	20W in built speaker, 24/7 operation, Wireless Presentation support for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto switch on fallover	Yes			Wireless Presentation support for Laptop ?	Yes			yes		yes						yes		yes			
	HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN Control, USB Auto play function	Yes			SNMP ?, Usb auto play ?	Yes			Yes		Yes						Yes		Yes			
	Multi screen support up to 10 x 10, HTML 5.0 based browser	NA			Check ?	Yes			Yes		Yes						Yes		Yes			
	Optional Windows and Android OPS support, USB Locking system for security, Built in Signage and Basic content Management Solution, with wall mount kit	Yes			usb locking ?	Yes			Yes		Yes						Yes		Yes			



	ACCESSORIES	Included: Power cord, rack ears, remote control transmitter with batteries	Data Not provided		Yes	remote control transmitter with batteries is not there	It comes with remote control and batteries	Yes		Yes				Yes		Yes		
OTHER SPECIFICATIONS	Analog and Digital Audio Extraction (De-embedding)	Yes	Feature Comes with additional item	Yes				Yes		Yes				Yes		Yes		
	Show my PC over HDMI	Data Not provided		NA				Yes		Yes				Yes		Yes		
	Equalization & re-clocking Technology – Rebuilds the digital signal to travel longer distances.	Data Not provided		NA				Yes		Yes				Yes		Yes		
	Flexible Content Protection – Selectable HDCP per input.	Data Not provided		Yes				Yes		Yes				Yes		Yes		
	Quick Access to Common Configurations – Save up to of minimum six preset configurations.	Data Not provided		Data Not provided			Quick Access to Common Configurations -It has 3 preset configurations	Yes		Yes				Yes		Yes		
	Cost-Effective Maintenance – IR and Input Selection indicators facilitate easy local maintenance and troubleshooting	Data Not provided		Yes				Yes		Yes				Yes		Yes		
	EDID Management – Individual EDID management per input. Captures and stores the EDID from a display device.	Yes		Yes				Yes		Yes				Yes		Yes		
2 VS-411XS	Type 1 : Supply Installation Testing Commissioning of 4x1 4K HDR HDMI Intelligent Auto Switcher	Aten VS481C+VC882	Liberty AV - DL-S41-H2				KRAMER - VS - 411XS		KRAMER - VS - 411XS				KRAMER - VS - 411XS		KRAMER - VS - 411XS			
	INPUTS	4 HDMI: On a female HDMI connector	Yes		Yes			Yes		Yes				Yes		Yes		
	OUTPUTS	1 HDMI: On a female HDMI connector	Yes		Yes			Yes		Yes				Yes		Yes		
		1 Balanced Stereo Audio: On 5-pin terminal block connector	No	Data Not provided	Yes	PCM 2.0, 3.5mm TRS audio jack		Yes		Yes				Yes		Yes		
	PORTS	RS-232: On a 3-pin terminal block connector	Yes		Yes			Yes		Yes				Yes		Yes		
		Remote Contact Closure: On an 8-pin terminal block connector	Data Not provided		Yes	4 pin		Yes		Yes				Yes		Yes		
		Ethernet: On an RJ-45 connector	No	Data Not provided	No		Giving a serial port to RJ45 connector along with supply	Yes		Yes				Yes		Yes		
	VIDEO	Max Data Rate: 17.82Gbps (5.94Gbps per graphic channel)	Yes		Yes			Yes		Yes				Yes		Yes		
		Max Resolution: 4K@60 (4:4:4)	Yes		Yes			Yes		Yes				Yes		Yes		
		Compliance: HDR10 as specified in HDMI 2.0, HDCP 2.2	Yes		Yes			Yes		Yes				Yes		Yes		
	POWER	Source: 5V DC, 4A Consumption: 810mA	Yes		Yes			Yes		Yes				Yes		Yes		
	USER INTERFACE	Controls: Inputs selection, volume, and mute buttons, DIP-switches for configuring switching policy and audio de-embedding source, embedded web pages via IP	Data Not provided		Yes	Facility not Fully there	It is controlled through touch panel through webpages via IP	Yes		Yes				Yes		Yes		
	Remote Device Control	Control meeting and presentation devices connected	Data Not provided		Yes			Yes		Yes				Yes		Yes		
	Multi-channel Audio Switching	Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound,	Data Not provided		Data Not provided		it supports multi channel stereo signal	Yes		Yes				Yes		Yes		
	Display Operation	Automatically turning ON/OFF a CEC-enabled display when the presentation source is plugged in / unplugged with user-defined shut-down delay.	Data Not provided	Only automatically turning ON/OFF is available	Data Not provided		Supports CEC pass through control of source / display	Yes		Yes				Yes		Yes		
	ENCLOSURE	Type: Aluminum	No	Metal	Yes			Yes		Yes				Yes		Yes		
		Cooling: Convection ventilation	No	Data Not provided	No	Facility not there	Conventional ventilation is available in rack	Yes		Yes				Yes		Yes		
	ENVIRONMENTAL CONDITIONS	Operating Temperature: 0° to +40°C (32° to 104°F) Storage Temperature: -40° to +70°C (-40° to 158°F)	Yes		Yes			Yes		Yes				Yes		Yes		
		Humidity: 10% to 90%, RHL non-condensing	Yes		Yes			Yes		Yes				Yes		Yes		
	REGULATORY COMPLIANCE (STANDARDS COMPLIANCE)	Health, Safety, Environmental: RoHS, WEEE, CE preferred or applicable according to country of origin	No	Data Not provided	Yes			Yes		Yes				Yes		Yes		
	USB Hub																	
3 USBHUB-1	Type 1 : Supply Installation Testing Commissioning of USB Hub	Aten US3344AT-I	Liberty AV - DL-SCU33-SW		Quoted - Liberty AV - DL-4USB-PHUB is EOL. Quoted a higher model of Liberty AV - DL-SCU33-SW without any change on commercials.		Cler one Versa Hub		Cler one Versa Hub				Cler one Versa Hub		Cler one Versa Hub			
	Ports:	1x USB 3.0 (Type-B) for laptop (Requires Display Link driver on laptop) 2x USB 3.0 (Type-A) for USB camera & USB Speakerphone 4x USB 2.0 ports 1x HDMI out 1x DVI out	No	HDMI out & DVI out not available	Yes	HDMI and DVI , USB 2.0 ?	It has 3 Inputs with (USB-C & HDMI & USB-B) than requested is only 2... Peripheral of 4 is available as requested...HDMI to DVI connector is provided during the supply.	Yes		Yes			Yes		Yes			
	SYSTEM REQUIREMENTS	2.0 GHz Core2 Duo or better, 1GB RAM Full-Screen Video Playback: Core i3 i5 or i7 2+GHz, 4GB RAM Operating System: Windows Vista/7/8/8.1/10, Mac OS 10.2 or above Max Resolution: 2048 x 1152	No	Data Not provided	Yes		4K is also available and compatible with all OS.	Yes		Yes			Yes		Yes			

	ENVIRONMENTAL	Operating Temperature: 32° F/0° C to 104° F/40° C ambient temperature Storage Temperature: 14° F/-10° C to 158° F/70° C ambient temperature Relative Humidity: 10%~90%, non-condensing	Yes	NA			Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	POWER	Power Supply: 12V 2A Power Plug: UK/EU/US/China/Australia (option) Power Consumption: 1W Rated Voltage/Frequency/Current: 100-240 V AC, 50/60Hz, 0.1A max, CLASS II	No	Data Not provided	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	Type 1 : Supply Installation Testing Commissioning of USB Hub		Aten US234	Liberty AV - DL-SCU33-SW	Quoted -Liberty AV - DL-7USB-PHUB is EOL. Quoted a higher model of Liberty AV - DL-SCU33-SW without any change on commercials.		Aten US234	Aten US234						Aten US234	Aten US234				
4	Ports:	2 x USB Type B Female (Requires Display Link driver on laptop) 3 x USB Type A Female for USB camera & USB Speakerphone 1 x USB micro B Female (Power (Optional)	Yes	Partial	1 USB Type-B & 1 x USB micro B Female (Power (Optional) is not available	Without display link driver also it works.	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	TOGGLE :	can switch them between two hosts	Yes	NA		Switching between host is possible.	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	SYSTEM REQUIREMENTS	supporting data transfer rates of up to 5 Gbps Operating System: Windows, Linux and Mac or above Max Resolution: 2048 x 1152	Yes	Yes	Resolution not mentioned	4K is also available and compatible with Windows, Linux and Mac	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	ENVIRONMENTAL	Operating Temperature: 0 - 40°C, Storage Temperature: -20 - 60°C, Humidity: 0 - 80% RH, Non-condensing	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes						
	Cable Cubby																		
5	CC-HDMI	Type 1 : Supply Installation Testing Commissioning of Cable Cubby	eisconnect ECC02	NT-9CAX02			EIS-ECC02	EIS-ECC02						EIS-ECC02	EIS-ECC02				
	Interface	Cable Cubby with 2 Universal Power Socket with 2 LAN,1 HDMI Pass Through with sliding Lid.		Datasheet not provided	Yes	DataSheet Not Provided	Attached Data sheet	Yes	Yes	Yes	Yes	Yes	Yes						
	CAMERA																		
	Type 1 : Supply Installation Testing Commissioning of 12X Camera																		
1	Parameter	1/2.8 inch CMOS Effective Pixel: 2.07M f4.4mm – 88.5mm, f1.8 – f2.8 Optical Zoom: 12x Focus Mode: Auto Focus Minimal Illumination: 0.5 lux @ (f1.8, AGC ON) Shutter: 1/30s – 1/10000s White Balance: Auto, Indoor, Outdoor, One Push, Manual Backlight Compensation: Supported Horizontal Angle of View: 60.7° – 3.36° Vertical Angle of View: 34.1° – 1.89° Horizontal Rotation Range: ±170° Vertical Rotation Range: -30° – +90° Pan Speed Range: 1.7° – 100°/S Tilt Speed Range: 1.7° – 69.9°/S H & V FLIP: Supported Image Fraction Support	Yes	1/2.7"	Yes	1.Presets 2. Shutter speed	Numer of Presets : 100 per camera. Shutter speed- 1/30s to 1/16000s @ 60 Hz .Whole premises can be covered within the given Presets	Yes	Yes	Yes	Yes	Yes							
	Interfaces	HD Output: 1 x HDMI: Version 1.3 Network Interface: 1 x RJ45: 10M/100M Ethernet Interface Audio Interface: 1-Ch 3.5mm Audio Interface, Line In / Mic In USB: 1 x USB 3.0: type B female jack, 1 x USB 2.0: type A female jack Communication: 1 x RS232 In,out: 8-Pin Min din,Protocols: VISCA/Pelco-D/Pelco-P	Yes	Usb One only	Yes	1.Check Two USB 2. Usb Connectivity without software ?	USB 2.0 Type -C Available,,,,,,,,,,Panasonic Cameras which has multiple base band outputs Like HDMI , 3G-SDI and USB. Main usage of USB to connect Cloud VC which is possible with 1 no of USB port. For recording it gives uncompressed output via HDMI and 3G-SDI.	Yes	Yes	Yes	Yes	Yes	Yes						
	USB Features	Operating Systems: Windows 7 or above, MacOS X, Linux • Color System: YUY2/MJPEG/H.264 • Video Formats: USB 3.0, 2.0 • USB Video Communication: UVC 1.1 • UVC PTZ: Supported	Yes		Yes				Yes	Yes	Yes	Yes	Yes						







Type 1 : Supply Installation Testing Commissioning of HDMI 10'		Aten 2L-7D03H		NT-1BC03-10		Kramer - C-HM/HM-10		Kramer - C-HM/HM-10		Kramer - C-HM/HM-10		Kramer - C-HM/HM-10						
1 CAB-HD-10	TYPE	High Speed and Standard Speed HDMI cables	Yes		Yes		Yes		Yes		Yes		Yes		Yes			
	MAX. RESOLUTION	4K@60Hz (4:4:4)	Yes		Yes		Yes		Yes		Yes		Yes		Yes			
	CONDUCTOR AWG	28 AWG (7/0.127)	Yes		Yes		Yes		Yes		Yes		Yes		Yes			
	SHIELD	Dual overall shield against EMI/RFI interference, (a) Al-Mylar, (b) tinned copper	No	Aluminium foil	No	Armoring and copper only		Yes	Triple shielding	Yes			Yes		Yes			
	CABLE OD (HM)	3-35ft: 8 ± 0.19mm or better	No	6 ± 0.2mm	No	6.2 mm		No	6.50 ± 0.15mm	Yes			Yes		Yes			
	MOLDED CONNECTORS	Yes	Data Not provided		Yes		It is a Patch Cable with Moulded Connector		Yes		Yes		Yes		Yes			
	GOLD-PLATED CONNECTORS	Yes	Yes		Yes				Yes		Yes		Yes		Yes			
	STANDARDS COMPLIANCE	HDR, HDCP	Yes		Yes	HDCP		Yes		Yes		Yes		Yes		Yes		
2 CAB-HD-25	FLAME TEST	CL2 preferred or applicable according to country of origin	Yes	UL VW-1 (Flame rate), CSA	Data not provided			Yes	CL3	Yes			Yes		Yes			
	Type 2 : Supply Installation Testing Commissioning of HDMI 25'		Aten VE781010		NT-1BC03-7.5		Kramer - C-HM/HM/PRO-25		Kramer - C-HM/HM/PRO-25		Kramer - C-HM/HM/PRO-25		Kramer - C-HM/HM/PRO-25					
	TYPE	High Speed and Standard Speed HDMI cables	Yes		Yes		Yes		Yes		Yes		Yes		Yes			
	MAX. RESOLUTION	4K@60Hz (4:4:4)	Yes		Yes		Yes		Yes		Yes		Yes		Yes			
	CONDUCTOR AWG	28 AWG (7/0.127)	Data Not provided		No	24 awg		Yes		Yes		Yes		Yes		Yes		
	SHIELD	Dual overall shield against EMI/RFI interference, (a) Al-Mylar, (b) tinned copper	Yes		No	Armoring and copper only		Yes	Triple shielding	Yes			Yes		Yes			
	MOULDED CONNECTORS	Yes	Data Not provided		Yes		It is a Patch Cable with Moulded Connector		Yes		Yes		Yes		Yes			
	GOLD-PLATED CONNECTORS	Yes	No	Zinc alloy	Yes			Yes		Yes		Yes		Yes		Yes		
3 CAB-HD-50	STANDARDS COMPLIANCE	HDR, HDCP	Yes		Yes			Yes		Yes		Yes		Yes		Yes		
	FLAME TEST	CL2	Data Not provided					Yes	CL3	Yes			Yes		Yes			
	Type 3 : Supply Installation Testing Commissioning of HDMI 50'		Aten VE781020		NT-1BC03-15		Kramer - CA-HM-50		Kramer - CA-HM-50		Kramer - CA-HM-50		Kramer - CA-HM-50					
	TYPE	Premium / High-Speed HDMI Cable with Ethernet	No	Ethernet facility not available	Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	MAX. RESOLUTION	Max Data Rate for 50ft (15.2m) lengths: 4.95Gbps (.99Gbps per channel)	Yes		Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	CONDUCTOR AWG	50ft (15.2m) lengths: 24AWG (7/0.20)	Data not provided		Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	AUDIO	Supported Audio Formats: Dolby Digital Plus™, Dolby TrueHD™, DTS-HD Master Audio™, DVD Audio, SA-CD	Yes		Yes	Hentoned only audio	Yes	Yes		Yes		Yes		Yes		Yes		
	PHYSICAL	HDMI Source: On a male HDMI type A, 24K gold-plated Lock connector HDMI Display: On a male HDMI type A, 24K gold-plated Lock connector	Data not provided		Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	JACKET	Material: PVC Color: Black Diameter for 8 ± 0.19mm	No	Dia : 4.5 mm	Yes	OD:10mm	No-OD:10mm	Yes		Yes		Yes		Yes		Yes		
	MECHANICAL	Cable Bending Radius for 80mm or better	No	20mm	No	60mm	Yes	Yes		Yes		Yes		Yes		Yes		
	ELECTRICAL	Temperature Rating: 80°C Voltage Rating: 30V Conductor Resistance – 24AWG: 63.2Ω/km MAX. at 20Ω or better	No	Temperature : 50°C and other data not provided	Data not provided		Data not provided	Yes		Yes		Yes		Yes		Yes		
	Specification	high-speed, high-performance digital video and audio with impeccable impedance stability, low skew, high signal integrity, and noise immunity	Data not provided		Data not provided		Data not provided	Yes		Yes		Yes		Yes		Yes		
4 CAB-HD-98	MOLDED CONNECTORS	Yes	Data not provided		Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	GOLD-PLATED CONNECTORS	Yes	No	Zinc alloy	Yes		Yes	Yes		Yes		Yes		Yes		Yes		
	STANDARDS COMPLIANCE	Safety: Flammability Rating – CL3/FT4 preferred or applicable according to country of origin Environmental: RoHS 2011/65/EU preferred or applicable according to country of origin	Yes	Safety: Flammability Rating – CL3/FT4 preferred or applicable according to country of origin	Data not provided		Data not provided	Yes		Yes		Yes		Yes		Yes		
	VIDEO	Max Data Rate for 82-98ft (25-30m) length: 10.2 Gbps (3.4Gbps per channel) HDMI Compliance: HDCP 2.2, HDR, EDID and CEC			Yes			Yes		Yes		Yes		Yes		Yes		
	AUDIO	Supported Formats: Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™, DVD Audio, SA-CD			Yes			Yes		Yes		Yes		Yes		Yes		
	PHYSICAL	HDMI Source: On a male type A, 24K gold-plated K-Lock connector HDMI Display: On a male Type A, 24K gold-plated K-Lock connector (optional external power input via micro USB connector)			Yes			Yes		Yes		Yes		Yes		Yes		
	CONDUCTORS	66-98ft (20-30m) lengths: 24AWG			Yes			Yes		Yes		Yes		Yes		Yes		
	SCREENING	TMDS pairs: Aluminum/mylar Overall: Aluminum/mylar + aluminum braid			Yes			Yes		Yes		Yes		Yes		Yes		
	JACKET	Material: PVC Color: Black Diameter - 66-98ft (20-30m) lengths: 9.5±0.25mm			TPU Material	Datasheet not provided	Available attached datasheet for reference	Yes		Yes		Yes		Yes		Yes		



Technical Compliance Statement																			
The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender.	Yes		Yes			Yes		Yes		Yes		Yes		Yes		Yes		Yes	
The Bidder or its OEM (themselves or through reseller(s)) should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.	Yes		Yes			Yes		Yes		Yes		Yes		Yes		Yes		Yes	
Warranty: 3 Years warranty from the date of installation at our site.	Yes		Yes			Yes		Yes		Yes		Yes		Yes		Yes		Yes	
Complying with Delivery period : 75 days (Yes / No)			Yes			Yes		Yes		Yes		Yes		Yes		Yes		Yes	
Technical Recommendations (Qualified / Not Qualified)	Not Qualified	No Mail Response For Technical Evaluation enquiry	Qualified			Not Qualified		Qualified		Not Qualified		Qualified		Qualified		Not Qualified		Not Qualified	
If not qualified, please specify the detailed reasons for disqualification		No Mail Response For Technical Evaluation enquiry	Qualified			Techno commercial Not qualified				Site Visit Not Done- Disqualified					Shortfall of MAF Documentns	MAF Documentns Not Sent			
I certified that the qualification criteria and technical specifications were not unduly restrictive																			

Evaluated by: G. RAMESH - CC - SYSTEMS

G. Ramesh

INDENTER : 65