## VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA

Po. Engineering College, Burla, Dist. Sambalpur, Odisha, India, PIN: 768018 Phone: 0663-2430211, FAX: 0663-2430204, Website: <a href="https://www.vssut.ac.in">www.vssut.ac.in</a>



Tender document for supply, installation and commissioning of Different Equipment (Hardware) for Biju Patnaik e-Learning Centre, VSSUT, Burla.

Tender Call Notice No. VSSUT,	/BPE-Learning/ <b>3741</b> /2018	Date: 10/12/2018
Submitted by		
M/s.		

Last Date and Time of Submission of Tenders by Registered/Speed Post Only

**Cost of Tender Documents** 

Date & Time of Opening of Technical bid

Date & Time of Opening of Price bid

31.12.2018 : 5.00 PM

: Rs 500/-(Rupees Five Hundred Only)

: 02.01.2019: 3.00 PM

: 04.01.2019: 3.00 PM

The Document is prepared by VSSUT, Burla. It should not be reused or copied or used either in partially or fully in any form. The information provided by the bidders in response to this Tender document will become the property of VSSUT, Burla and will not be returned.

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### VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY: BURLA

P.O: Engineering College Burla (Siddhi Vihar), Dist: Sambalpur Odisha— 768018, India

E-mail: registrar@vssut.ac.in, Ph:(0663)2430573,Fax-2430592

Advt. No./VSSUT/BPE-Learning/ 374/ /2018

Date: 11/12/2018

### **TENDER CALL NOTICE**

Sealed Tender Documents are invited by the undersigned from intending reputed, registered and experienced firms for Supply, Installation, Commissioning and Testing, Training and Maintenance of Different Equipment (Hardware) for the Biju Patnaik e-Learning Centre of the University. The last date of submission of Tender is 31.12.2018 5.00 PM. The Technical & Financial bid shall be opened on 02.01.2019 and 04.01.2019 at 3.00 PM respectively. For details visit University website www.vssut.ac.in.

Sd/-Registrar

Memo No. VSSUT/ VSSUT/BPE-Learning/3742(4)/2018

Dated: 10 / 12 / 2018

### Copy to:

- M/s/ Display Lines, 219 Saheed Nagar, Bhubaneswar. The above advertisement may be published
  in all editions of "The Samaj (Oriya Daily)" and all Odisha editions of "The New Indian Express
  (English Daily)" newspaper on or before 12/12/2018 in I&PR approved rates in one issue using
  minimum space. The bill may be sent in triplicate along with a copy of the paper in which the
  publications is made.
- 2. University Notice Board.
- 3. Dean (Faculty & Planning) with a request to display the advertisement on the University website.
- 4. The Comptroller of Finance, VSSUT, Burla for Information.
- 5. PA to Vice Chancellor for kind information of Hon'ble Vice Chancellor.
- 6. PA to Registrar for information vide the approval of Vice Chancellor

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## VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA, BURLA

<u>Tender call notice for supply, installation and commissioning of</u>
<u>Different Equipment (Hardware) for the Biju Patnayak e-Learning Centre</u>

Tender Call Notice No. VSSUT/BPE-Learning/3741/2018

The "Registrar, Veer Surendra Sai University of Technology, Burla" invites sealed Tenders from the intending reputed Original Equipment Manufacturer or its registered authorized dealers for supply, installation, commissioning of Different Equipment (Hardware) for Biju Patnaik e-Learning Centre, VSSUT, Burla.

All details and the Tender documents are available on the University website www.vssut.ac.in.

This Tender document contains the following.

- (i) General guidelines for submission of Tender
- (ii) Technical specification
- (iii) Information sheet of bidder
- (iv) Undertaking by the bidder
- (vii) The Financial bid

### **Important Dates**

Last Date and Time of Submission of Tenders by

Registered/Speed Post Only

31.12.2018: 5.00 PM

**Cost of Tender Documents** 

Rs 500/-(Rupees Five Hundred Only)

Date & Time of Opening of Technical bid

02.01.2019 : 3.00 PM

Date & Time of Opening of Price bid

: 04.01.2019: 3.00 PM

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Registrar

Date: 10/12/2018

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### **General Guidelines for Submission of Tender**

- The bidder shall furnish an unconditional acceptance of all the terms and conditions of this Tender call
  document. The Tenders without such certificate shall be liable for rejection. No correspondence will be
  entertained from the bidder on this subject.
- The person signing the Tender or other documents shall indicate his full name below his signature in all pages.
- The bidder shall submit a certificate (self-certified on letter head) that the firm has not been black listed by any institution of the State/Central Government in the past.
- 4. Eligibility of the Bidder: The bidder should verify its eligibility criteria as mentioned below before submitting the Tender and enclose the required documents in the sequence listed below, to avoid rejection or disqualification of the Tender. The bidder should meet the following criteria.
  - a. The bidder should be Original Equipment Manufacturer (OEM) or Business partner of the Original Equipment Manufacturer/Authorized Dealer. In case of business partner, the partner must be an Authorized Systems Integrator (ASI) having a direct purchase and support agreement with the OEMs different Hardware. The bidder should provide supporting Manufacturer's Authorization certificate in this regard (that is authorized System Integrator/Authorized Dealer).
  - b. The bidder should have large support network with presence across India.
  - c. The bidder shall have sufficient experience (minimum 3 years) as on bid calling date in supply, installation, testing and commissioning of the different Hardware to corporate/Govt./other Academic Institution or Public Sector in India.
  - d. The Bidder's key technical engineers should have OEM certifications to install and maintain the IT equipment quoted by the Bidder.
  - e. The bidder shall have sufficient experience (minimum 3 Years) to execute such services/contract preferably in a university or an educational organization. The Bidder must submit satisfactory evidence of their capability and adequacy of resources to carry out this contract effectively from earlier users.
  - f. The bidder should be a GST registered company and profit making for the last three years with registered Certificate.
  - g. The bidder shall have service base located at Sambalpur or Bhubaneswar.

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- h. The bidder shall have sufficient experience in maintenance of Hardware.
- 5. Cost of Tender documents: The cost of Tender documents is Rs.500/- (Rupees Five Hundred Only) (Non-refundable). The Tender documents can be downloaded from the University website <a href="www.vssut.ac.in">www.vssut.ac.in</a> and have to deposit a DD equal to the cost of Tender documents drawn in favor of "VSSUT, Burla" payable at SBI, Burla or Syndicate Bank, VSSUT, Burla along with Tender.
- 6. The Tender must be submitted in two parts: (i) Technical bid & (ii) Price bid. The two bids must be submitted in two separate sealed envelopes clearly marking the bid's name and must be put in the single outer cover subscribing as "Tender for Different Equipment (Hardware) for Biju Patnaik e-Learning Centre, VSSUT, Burla", Last Date of Submission with Time and also the tender call notice number on the top of the Tender Cover.
- 7. Earnest Money Deposit (EMD): A bank draft towards EMD for the amount of Rs.10,000.00 (Rupees Ten Thousands Only) drawn in favor of "VSSUT, Burla" payable at SBI, Burla or Syndicate Bank, Burla, must be submitted against either Only One or more than one Item quoted. The EMD will not carry any interest.

### 8. Submission of Tender and Documents Required

- a. This Tender documents must be filled in completely and signed by the authorized signatory of the bidder on all the pages as acceptance of all the guidelines, terms and conditions laid in this Tender document. (This document should be printed on both side of the A4 size paper sheet).
- b. The completed document must reach to "The Registrar, Veer Surendra Sai University of Technology, Burla and PO. Burla, Dist. Sambalpur-768018 (Odisha) by the last date of submission as per the tender call notice, under a sealed cover by registered/speed post only. The Tenders received after the due date & time is liable to be rejected. Tender by FAX/e-mail or any other media will not be entertained.
- c. The envelope containing the Tender must be super-scribed as "Tender call notice for supply, installation and commissioning of Different Equipment (Hardware) for Biju Patnaik e-Learning Centre, VSSUT, Burla" with due date & time of submission.
- d. The University is not responsible for delay, loss or non-receipt of Tender documents sent by the post.

12. The Tender should contain the following documents.

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### a. Technical bid containing,

- This Tender document signed on each page by the authorized signatory of the bidder.
- Self-attested copy of PAN, GST Registration etc., issued by appropriate Government authority for the required services with seal of the Tender.
- iii. Bank draft (Non-refundable) towards the cost of Tender documents in favor of the Comptroller of Finance, Veer Surendra Sai University of Technology, Burla payable at SBI, Burla, or Syndicate Bank, VSSUT, Burla.
- iv. Bank draft for EMD in favor of the Comptroller of Finance, Veer Surendra Sai University of Technology, Burla payable at SBI, Burla or Syndicate Bank, VSSUT, Burla.
- v. List of user Clients and documents related to experience of the bidder along with address and contact number.
- vi. Detailed specification need to be submitted in respective Annexure Only for different product along with the service support.
- vii. A technical capability document describing the relevant facilities and services available with them.
- viii. Detailed literature along with make, model, data sheets, pamphlets and performance curves as applicable shall be attached with the technical offer.
- ix. Any other documents in support of the eligibility of the bidder.

### b. Price bid: The price bid shall specify the following,

- Cost for supply and installation of different Hardware per technical specification separately in the respective Price proforma.
- 9. The Tender is liable to be cancelled, and the EMD shall be forfeited to the COF, VSSUT, Burla, in the event of any failure to comply with any of the clauses of the terms and conditions of this Tender call document or in the event of bidder withdrawing his offer before/ after finalization of this selection process. Bid without the required EMD amount will be summarily rejected.
- 10. The University reserves the right at the time of award of the order to increase or decrease the quantity of the goods and services specified in the schedule of requirements without any change in unit price of the ordered quantity.
- 11. The Tender document is not transferable. The Tenders submitted by the bidder in their own pro-forma shall not be accepted. While filling up the forms / offering any other information, it shall be done using by typewriting.

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12. It may be noted that one agency cannot represent or quote on behalf of more than one dealer in the particular Tender. Such Tenders if received will not be considered.

### Price and its Validity

- 13. The bidder shall quote rate per unit item. However, the University may increase or decrease the quantity before placing the order, without assigning any reason thereof.
- 14. The Tender shall contain the firm and final rates in clear and unambiguous terms in Indian Rupees.
- 15. The quoted price must be inclusive of all taxes including GST, freight, packing, forwarding, transit insurance, training etc. and must be shown clearly against each entity for delivery at site. The installation, commissioning and demonstration shall be at the supplier cost.
- 16. The bidder shall also indicate the applicable prevailing GST.

### **Evaluation and Award of Contract**

- 17. On all the matters relating to this Tender call document, the decision of the University shall be final and binding and the same cannot be referred to the court of law. The University reserves the right to reject any or all of the Tenders without assigning any reason what so ever.
- 18. The University reserves the right to call the bidders and to conduct negotiations, if necessary and has the right to select more than one bidder for one or more items at its discretion.
- 19. Any deviation in technical specifications shall not be entertained ordinarily. The University reserves the right to modify the specifications during the execution stage of the purchase process. Wherever the technical specifications of items are changed either at the University request or at Bidder's request, revised price will be fixed on the upgraded technical specification, if necessary, by negotiations and as agreed upon by both parties.
- 20. The University reserves the right to order all or part or none of the items and/or services given in this document.
- 21. The University may reject the bid even if it is accepted but the successful bidder fails to execute any of the guidelines, terms and conditions mentioned in this Tender document.
- 22. The supplier shall not assign or makeover the contract, the benefit or burden thereof to any other person or persons or body corporate. The supplier shall not underlet or sublet to any person(s) or body corporate for the execution of the contract or any part thereof.

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## **Delivery Period**

- 23. All the items are to be door-delivered to the University within 4-5 weeks of the issue of the purchase order. In case the supplier fails to deliver the goods within the due period, the University reserves the right to cancel the purchase order and to place orders with other firms without assigning any reason thereof.
- 24. The supplier must supply all ordered items at a time. Part supplies are not acceptable and will not be entertained on any account. Any loss or damage during transit will be replaced at the cost of supplier.

### **Installation and Commissioning**

25. The supplier shall be liable to complete all installation and commissioning of the Hardware at the site within 15 days from the date of receipt of items. All packing must be opened at the site and be handed over to the consignee, at the supplier's cost.

### Warranty

26. The Hardware supplied will be under comprehensive warranty for a minimum period of 1 year or more than 1 Years offered by the Company, if any, from the date of installation and commissioning.

#### Services

- 27. The supplier shall have a service support base at Sambalpur/Bhubaneswar and shall submit full detail address with phone no., fax no. and e-mail ID of the contact person for after sales service.
- 28. The supplier is required to take care of change in technology and supply the higher version of the hardware available at the time of delivery at the same total cost as per the order. The operating manuals must be supplied at the time of delivery of goods.
- 29. The supplier shall submit all bills in triplicate on printed forms to the University. The billing must be done with Odisha State GST billing.
- 30. The supplier must submit valid and up-to-date IT Clearance and GST Registration Certificate along with the bill before release of payment.
- 31. No interest on any deferred claim arising out of this purchase shall be payable in any case whatsoever.

  No payment will be made for goods rejected at site during installation and commissioning.
- 32. The prices charged by the supplier for goods delivered and services performed under the contract shall not be higher from the prices quoted by the supplier in this Tender.

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- 33. The 90% of the billed amount will be released only if the items have been received in good conditions and successful installation and commission of the different Hardware installed and commissioned as per the specifications.
- 34. The balance 10% will be released after 30 days of the satisfactory on site performance from the final date of installation and commissioning of Hardware. All payments will be released based on separate invoices submitted to the university by the supplier. The supplier shall submit the bills in triplicate on printed forms only for the release of the balance 10% amount to the University.

### Other terms and conditions

- 35. The University reserves the right to cancel the purchase order if the different Hardware supplied fail to meet the specification mentioned within the terms and conditions of this Tender call document. The University shall not be held responsible for any loss or damage suffered by the bidder as a result of the cancellation of the purchase order.
- 36. The University reserves the right to cancel an item as ordered or cancel the whole order, if the University does not agree to a change of specification suggested by the bidder or if the bidder is not able to supply an item as per changed specifications required by the University or if there is no agreement on the revision to price.
- 37. The University may cancel the order if it is found that the agency is blacklisted on previous occasions by any of the departments/ institutions/ local bodies etc.
- 38. Any dispute arising out of the deal shall be subjected to the jurisdiction of the court at Sambalpur within the State of Odisha.
- 39. The University reserves the right to add/delete/change any of the terms and conditions stipulated in this Tender document.
- 40. Any Queries in terms of this Tender Call Notice may please be made to Convener, Project Implementation committee during office hours, Phone: 9437577560.
- 41. The bidders are requested to watch our web site regularly for further notifications.
- 42. The bidder has to print the Logo of Power Grid and Name in all supplied items.

## Delivery as well as Billing Address

The Registrar Veer Surendra Sai University of Technology, Odisha BURLA-768018 Dist. Sambalpur (Odisha)

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## **Technical Specifications**

SI.	Name of the Equipment to be Quoted	Approx. Qty	Annexure to be Complied
1.	Computer System for the Central Computer Hall	150	A1
2.	Servers for the Central Computer Hall	02	A2
3.	10 KVA Online UPS with Battery Bank	03	А3
4.	Multi-point Video Conferencing equipment with in-built audio system and LED TV	01	A4
5.	Audio System for 500 seated gallery Hall with accessories	500	A5
6.	Wi-Fi Routers with 20 Nos. of Compatible Access Points	01	A6
7.	Copier and Heavy Duty Printer	01	A7
8.	CCTV Surveillance system with 16 Channel NVR with 10 Nos of Dome Camera and 02 Nos of PTZ Camera.	Set	A8

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# (Technical Specification for Computer System) Annexure-A1

Technical Parameters	Specification	Specification Offered	(Yes/No)
Processor	Intel Core i7 8700 and 8 <sup>th</sup> Gen.		
Chipset	Intel H370		
Graphics & Type -	Intel UHD & Integrated		
Hard Disk	1000 GB HDD 7200 RPM		
Type of RAM	4GB DDR 4 @2666	=	
RAM Expandability	32		
DIMM Slots	2	7	
Internal Bays	1		
External Bays	1	1-	
Optical Drive	DVD RW	ione (1)	
Cabinet	TOWER/SFF		
Cabinet Volume	Less than 11 L		
Network Connectivity	10/100/1000 on board Integrated Gigabit Port & Integrated Wi-Fi		
Expansion Slots (PCI)	1		
Expansion Slots (PCle x 1)	2		
Expansion Slots (PCIe x 16)	1		
USB Port 2.0	4		
USB Port 3.1 Gen 1	4		
VGA	YES		
HDMI	Yes		
Monitor Size	19.5 IPS with 1440 X 900 TCO 7 Certified		
Keyboard	STANDARD		
Mouse	OPTICAL		
Power Supply	180 W		
Operating System (Pre- Loaded)	Windows 10 Professional 64 Bit		
Antivirus	Quick Heal Total security for 3-Years Preloaded		
Warranty	3 Years onsite		
TERMS & CONDITIONS:	anufacturers Authorization letter clearly mentioning		

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# (Computer Server) Annexure-A2

Technical	Specification	Specification	Compliance
Parameters		Offered	(Yes/No)
Chassis	Maximum 5U Tower		
CPU	One latest generation Intel Skylake Gold		
	processor 5120		
CPU L3 CACHE			
Memory	Minimum 8MB Level3 Cache		
Motherboard	Intel® C236 Series Chipset	7	
	48 GB DIMMS scalable to at least upto 192 GB,		
Memory	using DDR4 ECC DIMM memory modules.	*	
	Maximum 6 DIMM slots.		
HDD Bays	Support up to 8 LFF/SFF drive bays from day 1.		
	One optional optical drive bay to install DVD-		
Optical drive Bay	ROM or DVD-RW (depending on HDD selection)		
Hard disk drive	3 X 1.2 TB SAS HDD		
Storage Controller	Hardware based Raid Controller with RAID		
Storage Controller	0/1/1+0/5 support.		
Networking features	1Gb 2-port network adaptor.		
	Video - 2 (Rear)		
luta of a car	USB 3.0 4 (4 rear), USB 2.0 3 (2 front, 1 internal)		
Interfaces	Network RJ-45 (Ethernet) - 1 for ILO/IPMI		
	remote management.		
Bus Slots	Five PCI-Express 3.0 slots, atleast two x16 slots		
Industry Standard	PCIe 3.0 Compliant, PXE Support, WOL Support,		
Compliance	Microsoft® Logo certifications, USB 2.0 /3.0 Support		
	Power-on password		
Security	Setup password		
	Power switch security		
	Administrator's password		
	TPM 1.2, TPM 2.0, UEFI		

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Model		
Approved Make	HP	
OS	Windows 2016 Server	
Warranty	3-Years On-Site	
Monitor	19.5" or higher IPS Panel LED backlit with TCO 7.0 and 1440 x 900 Resolution	
Power	Redundant power supplies	
	Should help to identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.	
Server Management	Monitoring using SNMP / API / SDK in a single central management application.  The Servers should have Role-based security feature. Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via automatic execution of scripts.	
Embedded management	Essential tools, drivers, agents to setup, deploy and maintain the Server should be embedded inside the Server. There should be a built -in Update manager that can update firmware of system by connecting online as on when required.  Should support Remote monitoring of camera status and Network Health and Event	

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# (Technical Specification for 10 KVA On-Line UPS) Annexure-A3

Technical Parameters	Specification	Specification Offered	Compliance (Yes/No)
Technology	Double Conversion Based on IGBT Technology with galvanized Input and Output Isolation.	*	
Input			
Voltage Range	360 - 470 V AC (3Phase)		
Frequency Range	46 to 54 Hz		
Phase	Three Phase		
Power Factor	0.99 to unity.		
Input THD	< 5%		
Output			I ELEX
Voltage	230 VAC		
Voltage Regulation	+ /- 1%		
Frequency (Synchronized Range)	46 - 54 Hz		
	< 3% (linear load)		
Harmonic Distortion (THD)	< 5% (non-linear load)		
Output Waveform	Pure sine wave		
Crest Factor	3:1		
Efficiency (AC - AC)	> 90%		
Power Factor	0.9		
	125 % for 1 minute		
Overload capacity	150% for 10 Seconds		
Charger	Built-in solid state float- cum-boost charger with automatic boost / trickle charge modes with current limiting features.		
Transfer time	0 ms		
General			
Operating Temperature	10 to 45 Deg. C for UPS System		
Relative Humidity	10 - 95% RH, Non Condensing		
Noise level	<45 dB @ 1 meter		

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		Mains ON	
LCD Display		Inverter ON / OFF / Faulty	
		Battery Level	
		Static Bypass ON	
		Load Level	
7		Mains Failure alarm	
Audible Alarm		Low Battery Alarm	
		Overload	
		Advanced electronic	
		safety backed with MCBs	
Protections		Fast acting fuses,	
Totections		High speed pulse blanking	
		Electronic overvoltage / under voltage	
Bypass		Static Bypass	
System DC Voltage		288 V DC for 10 KVA UPS	
Communication Interface			
Standard		RS 232 port for software	
		SNMP / Web enabled	
Approved Make		APC/Numeric/Aplab	
Model			
Battery			
Battery Type		12 V VRLA Sealed Maintenance Free Batteries	
Back Up Time		1 Hrs Under Full Load Conditions	
Battery Bank		Single Battery bank only in Compact Mode.	
		nd having ISO9001:2008 &ISO 14001: 2004 Certifold have any three of the following certifications:	fied for quality &
1. JIS	2. QS	9000-8230	
3. UL 198E	4. BS	OHSAS - 18001 : 2007	
5. CE mark			
Approved Make	Panasoni	c/Quanta/Exide	

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# (Multipoint Video Conferencing and Audio) Annexure-A4

# 1. Video Wall Specification

Item Description	Features		Specification	Compliance Y / N
	Screen Size	55-Inch		
	Resolution	1920 x 1080 (FHD)		3
DISPLAY PANEL	Aspect Ratio	16:9		
	Panel Technology	· IPS		
	Brightness	500cd/m <sup>2</sup>		
	Viewing Angle (H x V)	178º/178º		
	HDMI In	*2		
	DP In	*1		
L/O INTEREST	DP Out	*1		
I/O INTERFACE	DVI-D In	*1		
	DVI-D Out	*1		
	USB	*1		
	RS232C In	*1		
	RS232C Out	*1		
	Audio Out	*1		
	Power Supply	100 V ~ 240 V, 50-60 Hz		
	Stand By - Power Consumption	≤0.5W		
	Bezel Width	1.8mm		
	Cabinet Color	Black		
	Operating Temperature	0℃~40℃		
GENERAL		20%~85% RH		
	Operating Humidity	Non-		
		Condensing		
	Storage Temperature	-10°C∼60°C		
		10%∼90% RH		
	Storage Humidity	Non-		
		Condensing		
CERTIFICATION		CB / EMC / CE / BIS / EER		
	Remote Controller	Y		
INCLUDED ACCESSORY	Power Cord	Υ		
VULLECUDY		<b></b>		

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# 2. Video Wall Controller Specification

Item Description	Features	Specification	Compliance Y/N
Main functions	Video processor	True 10 bits processing	
Processing channel		4	7
Video Wall with flip o	down function	90/180/270 degree image flip.	
Input & Output		4x UHD/DCi 60fps inputs 4x WUXGA/1080p	
Video Input Ports		outputs  2x HDMI, 2x Display Port	
Video Output		4x HDMI	
Loop out port for daisy chain connection		2x 4k/2k HDMI loop out port	
Input resolution		4096x2400 60fps	
Color Sampling		4:4:4	
Input and output wit	hout frame rate conversion	60 Hz	
Digital input port		HDCP	
Video Wall	Image any angle	Split, cropping, magnify	
	flip/rotation	and location assignment	
8K/4K video wall display with extension mode		Should be available	
Pixel based position edges	and bezel management in all	Should be available	
Cascade ability to extend video wall to 3x3, 4x4 up to 15x15 matrix display		Should be available	

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Frame Lock mode to ensure synchronized display		Should be available	
Video processing	10 bits 3D de-interlace, smooth edge algorithm and 3:2/2:2 Cadence	Should be supported	
High quality video ar down	nd graphics scaling up and	Should be available	
Frame rate and form	nat conversion	Should be available	
System control	Full function Front Panel Keypads & IR Remote control	Should be available	
Cabled IR Receiver Extender		Should support up to 20 meters	
Firmware update and system control		Through RS-232	
Profiles to save and recall for difference display modes		Min 5	

## 3. Technical Specification for High Definition Video Conferencing Unit

Feature	Specification	Complied (Y/N)
Make :		
Model:		
MULTIPOINT CAPABILITIES	6 (1+5) sites or 9 (1+8) sites with Optional	
VIDEO		
Standards	H.261, H.263, H.263+, H.263++, H.264, H.264 High profile, MPEG-4 SP@L3, H.239 Dual Stream Support	
Resolution	16:9 wCIF/w288p (512 x 288), w432p (768 x 432), w4CIF, (1024 x 576), 720p (1280 x 720), 1080p (1920 x	
Frame rate	H.261 QCIF 30 fps, CIF 30 fps, H.263 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps,H.264 QCIF 30 fps, CIF 30 fps, 4CIF 30 fps, wCIF 30 fps,w432p 30 fps, w4CIF 30 fps, 720p 60 fps, 1080p 60 fps	

Bit rate	64 kbps to 16 mbps range should be available	
AUDIO		
Bandwidth and	MPEG-4 AAC Stereo: 22 kHz at 192 kbps (IP only)	
Coding	MPEG-4 AAC Mono: 14 kHz at 48 kbps, 64 kbps, 96 kbps	
Echo cancellation	Stereo Echo-cancelling, Noise reduction, Automatic Gain Control	
LIP	Auto/Off	
MICROPHONE	Omni directional External Microphone x 2	
ITU-T STANDARDS ( excluding audio/video standards )	H.320, H.323, IETF SIP, H.231, H.241 H.242, H.243, H.245, H.350, H.460.18, H.460.19	
MULTIPOINT NETWORK CO	DNNECTIVITY	
IP	RJ45 x 2 ( LAN & WAN separate )	
NETWORK PROTOCOLS	TCP/IP, UDP/IP, DHCP, DNS, HTTP, TELNET, SSH, SNMP, NTP, ARP, RTP/RTCP	
REMOTE COMMANDER	Wireless RF.	
CAMERA UNIT		
Image device	1/2.8-type "Exmor" CMOS image sensor	
Effective Picture Elements	Approx. 2.1 Megapixels	
Focal length	f=3.9 mm (Wide) to 46.8 mm (Tele) (F1.8 to F2.0)	
Zoom ratio	12x Optical zoom (12x digital zoom)	***************************************
Pan angle	Minimum +100° to -100°	***************************************
Tilt angle	Minimum +25° to -25°	
Preset	Up to 16 positions	
S/N	50 dB or more	
Others	View-DR feature up to 130dB at 29.97 frames per second ( fps )	
INTERFACES		
Video	External video inputs (HDMI x 1, DVI-I x 2), HDMI x 2,	
Audio	External analog microphone input Mini-jack (Plug in power) x 6 (L/R)  HDMI (video, audio) x 1, Audio Input (MIC/AUX) x 2 (Phono jack, stereo)  HDMI (video, audio) x 1, Line Output (Phono jack, stereo) x 1, REC Output (Phono jack, stereo) x 1	

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Network	10BASE-T/100BASE-TX/1000BASE-T x 2, ISDN Unit	
Control	RS-232C	
Pen Tablet Interface	Tablet Interface x 1	
AV & Data Annotation Recording Interface	USB Slot x 1	
GENERAL	Operating temperature 5 °C to 35 °C Operating humidity 20% to 80% (non-condensing) Storage temperature -20 °C to +60 °C Storage humidity 20% to 80% (non-condensing)	
SYSTEM COMPONENTS & ACCESSORIES	AC adapter, HDMI cable (3m), RF Remote Commander Unit,	

## 4. Others

SI	Specification		Compliance(Y/N)
1	Caballing	As per Actual	
2	HDMI , Splitter & Audio	As per Actual	
3	Shure Wireless Lapel SVX14/CVL	1 No.	
4	Shure Wireless Handheld SVX14/CVL +	1 No.	
5	Small design cabinet/ loudspeaker, 100v/ 20Watts / or 16ohm/ 70Watts, wall / bracket and safety chain / included per piece and sold in black -	10 No.	
5	Mixing amplifier / 100v/ 125Watts, 4 mic / + 4 line inputs, 3 level / priority system, 2tone chime, / 24V override output, / 24VDC/230 VAC mains power, /black	1 No.	
6	Installation & Commissioning	Lot	

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## (Sound, Speakers and Microphone for the Auditorium) Annexure-A5

SI	Specification		Compliance(Y/N)
1.	Supply and installation of Desk Micro Phone to be connected into the Video Conferencing System of the e-Learning System.	500 Nos.	
2.	Caballing	As per Actual	
3.	Installation & Commissioning	Lot	

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(Wi-Fi Routers) Annexure-A6

Technical Parameters	Specification	Specification Offered	Compliance (Yes/No)
Maximum campus AP licenses	32		
Maximum remote AP licenses	32		
Maximum concurrent users/devices	2,048		ī
Maximum VLANs	4,096		
Active firewall sessions	32,768		
Concurrent GRE tunnels	512		
Concurrent IPsec sessions	1,024		
Mobility Access Switch tunneled- node ports	1,024		
Firewall throughput	4 Gbps		
Encrypted throughput (3DES, AES-CBC)	2.4 Gbps		
Encrypted throughput (AES-CCM)	3.4 Gbps		
Form factor/footprint	1 rack unit		
Auto-negotiating 10/100/1000BASE-T	16		
Gigabit Ethernet ports (GBIC or SFP)	2 SFP		***************************************
USB 2.0	Yes (2)		
Management/status LEDs	Yes		
LINK/ACT and status LEDs	No		
LCD panel and navigation buttons	Yes		
Console port	Yes (micro USB/RJ-45)		
Out-of-band management port	Yes		
Compatible Wi-Fi Access Points			

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(Copier and Heavy Duty Printers) Annexure-A7

Parameters	Specification	Complied (Y/N)
Minimum copying	23PPM	
Duplex Print	12 ppm	
Paper Size(Original/Image)	A3	Ä
Scan Speed	30 ipm	
Technology	With separate Drum and Toner	
Processor	600 MHz	
Memory(RAM)	128 MB	
Duplexing Feature Availability	Standard	
Network feature Availability	Standard	
Reverse Document Feeder	Standard	
Mobile Printing through WIFI Router	Standard	
Resolution	600 x 600 dpi	
Zoom	25% to 400%	
Input Tray Capacity	250	
Multi-Purpose Tray	100 Sheet	
Maximum Paper Capacity	600 sheets	
Multiple copying	UP TO 999 pages	
Duty Cycle (Per month)	50000 Pages	
Warranty	1 Year onsite from OEM	

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# (Specification for CCTV Surveillance System) Annexure-A8

## 1. Megapixel IP dome Camera

SI. No.	Parameter	Specification	Complied (Y/N)
1	Image sensor	1/3" progressive scan CMOS	
2	Min. illumination	0.028lux@F2.0, AGC on 0 Lux with IR	
3	Image Resolution	1.3 megapixel (1280 x 960) HD resolution	
4	Lens	2.8 ~ 12 mm @F1.4, angle of view: 80° ~ 28.7°	
5	Day & night	IR 30M	
6	Digital noise reduction	3D DNR	
7	Wide dynamic range	YES	
8	Backlight compensation	YES	
9	Video compression	H.264 / MJPEG	
10	Dual stream	YES	
11	Frame rate	60Hz: 30fps (1280 x 960), 30fps (1280 x 720)	
12	Image settings	Saturation, brightness, contrast adjustable through client software	
13	Alarm trigger	Motion detection, tampering alarm	
14	Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, Qos	
15	System compatibility	ONVIF, PSIA, CGI	
16	General functionalities	User authentication, watermark	
17	IP66,weatherproof	Yes	
18	POE	YES	
19	Onboard storage	Built-in Micro SD / SDHC / SDXC card slot, up to 64 GB	
20	Vandal proof	Yes	
21	Power supply	12 VDC ± 10%, PoE (802.3af)	

2. Outdoor High Speed Dome (PTZ) Camera Technical Specification

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SI No.	Parameter	Specification	Complied (Y/N)
1	Image sensor	1.3" Progressive Scan CMOS,IP 66	
2	Min. Illumination	Color: 0.05Lux@( F1.4, AGC ON); B/W: 0.01Lux@( F1.4, AGC ON); 0 Lux with IR	E - :
3	White balance	Auto / Manual /ATW/Indoor/Outdoor/Daylight	
4	Digital noise reduction	3D DNR	
5	Backlight compensation	BLC	
6	Wide dynamic range	128X Digital WDR	
7	Day & Night	IR Cut Filter	
8	optical zoom	20X	
9	digital zoom	16X	2
10	Smart tracking	SUPPORT	
11	Pan / Tilt range	Pan: 360° endless; Tilt: - 15° ~ 90° (Auto Flip )	
12	3D intelligent positioning	SUPPORT	
13	Proportional zoom	Rotation speed can be adjusted automatically according to zoom multiples	
14	DEFOG	SUPPORT	
15	SD memory card	Micro SD Slot, up to 32GB	
16	Streams	Dual Streams	
17	Protocols	IPv4/IPv6, HTTP,HTTPS,802.1x,Qos, FTP,SMTP,UPnP,SNMP,DNS, DDNS, NTP,RTSP,RTP,TCP, UDP, IGMP,ICMP,DHCP, PPPoE	
18	Simultaneous live view	Up to 6	
19	Application programming	Open-ended API, support Onvif, PSIA and CGI	
20	Web browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+, support multi-language	
21	Alarm trigger	Motion detection, Audio Exception Detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception	

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22	Audio input	Optional audio input (LINE input), 2 ~ 2.4V[p-p]; output impedance: $1K\dot{\Omega}$ , $\pm 10\%$	
23	Audio output	Line level, impedance: 600Ω	
24	ROI encoding	SUPPORT	
25	Max. image resolution	1280×960	
26	Frame rate	60Hz:30fps(1280×960), 30fps (1280×720)	
27	3D intelligent positioning	SUPPORT	
28	RS-485 protocols	HIKVISION, Pelco-P, Pelco-D, self-adaptive	
29	Power	-A: 24VAC, max. 50W	
30	Working temperature	-A: -30°C ~ 65°C(-22°F ~ 149°F)	
31	PoE	SUPPORT	
32	SVC	Support	
33	Power-off memory	SUPPORT	

## 3. Network Video Recorder

SI. No.	Parameter	Specification	Complied (Y/N)
1	IP video input	128-ch	
2	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)	
3	Incoming bandwidth	400Mbps	
4	Outgoing bandwidth	400Mbps	
5	Third-party network cameras supported	YES	
6	Recording resolution	8MP/5MP/3MP/1080p/UXGA/720p/VGA/4CIF/D CIF/2CIF/CIF/QCIF	
7	Megapixel supported	Up to 8 Megapixels resolution	•
8	HDMI output	2-ch (/H models supports the HDMI outputs to be expanded to 6 channels), resolution: 1920 × 1080P /60Hz, 1920×1080P /50Hz, 1600 × 1200/60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
9	VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	

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10	Audio output	1-ch, RCA (2.0Vp-p, 1KΩ)	
11	Live view / Playback resolution	8MP/5MP/3MP/1080p/UXGA/720p/VGA/4CIF/D CIF/2CIF/CIF/QCIF	
12	SATA	16 SATA interfaces for 16 HDDs	
13	eSATA	1 eSATA interface	
14	miniSAS (Optional)	1 miniSAS interface	
15	HDD Capacity	Up to 4TB capacity for each HDD	
16	Array type	RAID0, RAID1, RAID5, RAID10	
17	Serial interface	RS-232; RS-485 (reserved); Keyboard;	
18	4 Fiber Optic Interfaces	YES	
19	4 LAN Network Interfaces	YES	
20	Alarm in/out	16/8	
21	Power supply Consumption (without hard disk	≤ 300 W	

4. Accessories for Installation as per requirement to be mentioned by the bidder.

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## Information Sheet of the Bidder

S/L	Description	To be filled in by the supplier
1.	Name of the Supplier/ Dealer/ OEM/Agency	
2.	Address with phone No./FAX/ e-Mail	
3.	Contact Person(s) Phone No. /Mobile No.	
4.	Name of the OEM( Brand)	
5.	Quoted Model No.	
6.	Certificate w.r.t. Authorized dealer	
7.	Details of Bank Draft towards the cost of Tender documents	
8.	Details of Bank Draft towards EMD	
9.	GST Registration details	
10.	Experience Details (with proof of orders from organization to which supplied earlier)	

DECLARARION: We hereby certify that the information furnished above is full and correct to the best of our knowledge. We understand that in case any deviation is found in the above statement at any stage, the Tender is liable to be rejected.

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## **Undertaking by the Bidder**

To

The Registrar, Veer Surendra Sai University of Technology, Burla-768018. Dist-Sambalpur, Odisha.

Subject: Tender for "Different Equipment (Hardware) for Biju Patnaik e-Learning Centre, VSSUT, Burla".

Dear Sir,

We have studied the full contents of the Tender call document and agree to quote by the guidelines, terms and conditions laid in this Tender document.

We enclose all the sheets of this Tender call document duly signed by us on every page, as a token of accepting all the guidelines, terms and conditions laid in this Tender document.

In case of non- observance of any of the guidelines, terms and conditions mentioned in this Tender document by us, we understand that our Tender/purchase order (as the case may be) may be cancelled.

We warrant that the goods supplied under this contract are new, unused, of the most recent or current models, and they incorporate all recent improvements in design and materials and all the services configured shall render trouble free function.

We hereby agree to supply, install and commission of all the Hardware items as per the terms and conditions of this Tender call document if we are offered to execute the contract.

Signat	ure of
In capa	city of
	Duly authorized to sign the Tender for and on behalf of
	Name and Address of the authorized Signatory

Date \_\_\_\_\_Signature

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## Financial Bid Proforma

## Use separate Sheet as per the Specification in Annexure(s) for EACH ITEM.

The Financial Bid may be submitted as per the technical specifications covering all requirements for the installation and commission of the item.

Name of the OEM/Business Partner of OEM/ Authorized Dealer:	
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# Financial Bid for ANNEXURE A1/A2/../A\*\*

Name of the Product:

SL	ITEM	Unit Price(INR)
1.	Base Price	
2.	GST	4 , , , , , ,
3.	Other Tax (if any)	
	Total(1+2+3)	
		(in Rupees)

Authorized Signature with Seal

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