



OFFICE OF THE REGISTRAR
মহাপুৰুষ শ্ৰীমন্ত শঙ্কৰদেৱ বিশ্ববিদ্যালয়
MAHAPURUSHA SRIMANTA SANKARADEVA VISWAVIDYALAYA
[Recognised Under Section 2(f) of UGC Act, 1956]
Srimanta Sankaradeva Sangha Complex, Haladhar Bhuyan Path,
Kalongpar, Nagaon, PIN-782001, Assam, India

Ref. No.: MSSV/R/86/2018/28980

Date: 11.02.2025

NOTICE INVITATING QUOTATIONS (NIQ)

Sealed Quotations are invited from the competent and qualified registered firm/ party for the supply of following items (inclusive of all taxes) to Mahapurusha Srimanta Sankaradeva Viswavidyalaya (MSSV) at Nagaon, Assam, India.

The quotation must reach the office of the undersigned **on or before 3.00 P.M. of 21st February, 2025.**

Item No. 1: TECHNICAL SPECIFICATION FOR 6 kVA UPS SYSTEM		
Sl. No.	Description	Technical Specification
1	Capacity (in kVA / kW)	6kVA/6kW Single Phase Input / Single Phase Output
2	Technology and Capability	a) True Online double conversion UPS, VFI-SS-111
		b) UPS should be designed at Rated PF of 1
		c) 3- level IGBT based inverter and rectifier
		d) Should have arrangement for paralleling upto 4 UPS for redundancy, if required
		e) Inbuilt isolation transformer should be provided, external not allowed
3	Parallel /Redundancy Option	2 UPS should be connected in parallel redundancy mode
4	Input	
4.1	Input facility -Phases / Wires	1-Phase / 2-Wire & Gnd (Phase & Neutral + Ground)
4.2	Input Voltage Range	160 - 300 VAC (On 100% Load)
4.3	Input Power Factor	≥ 0.99 (with full linear load)
4.4	Input Current Harmonic Distortion (THDi)	< 5% at full load in normal UPS operating voltage
4.5	Generator Compatibility	Compatibility to genset supply required
4.6	Input Frequency Range	45-70 Hz
5	Output	
5.1	Nominal Output voltage	230 V (adjustable to 220/230/240 VAC)
5.2	Output Voltage Regulation	±1%
5.3	Nominal Output Frequency	50 / 60 Hz ± 0,1%
5.4	Output Wave Form	Pure sine wave
5.5	Output Voltage Distortion (THDv)	<2% Full Linear Load
		<5% Full Non Linear Load



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5.6	Crest Factor	3:1
6	Efficiency	
6.1	AC/AC (overall efficiency)	Up to 94%
6.2	Overload capacity	Continuous operation at <105%, 5mins from 111-130%, 60 secs from 130-150%
7	Battery Backup	
7.1	Backup Required	30 Minutes
7.2	Battery Bank Voltage	240 VDC
7.3	Battery Bank Vah	Min 10000 Vah
7.4	Recharge Time(to 90%)	1 Hours
7.5	Batteries Type (VRLA)	Sealed Maintenance Free (SMF) - 12V Cells
7.6	Battery Makes	Amara Raja (Quanta make) / Exide Powersafe / Panasonic
8	Communication	
8.1	RS232	Available
8.2	USB Com port	Available
8.3	Intelligent slot	SNMP/MODBUS
9	Features	
9.1	Converter mode	Available
9.2	Emergency power off (EPO)	Available
9.3	Display	LED + LCD Display for real time monitoring and control
10	Mechanical	
10.1	Ingress protection	IP 20
11	Environmental Conditions	
11.1	Operating temperature	0~40°C Continuous
11.2	Relative humidity	20% to 90% (non-condensing)
11.3	Storage temperature	from -10 degC to +40 degC
11.4	noise level at 1m (dBA)	< 50 dBA
12	Mandatory Requirement	
12.1	Safety	EN 62040-1 & IS 16242:2014
12.2	EMI / EMC	EN 62040-2
12.3	Performance	IEC 62040-3
12.4	Certification	CE, BIS, ROHS, PEP
12.5	RoHS Compliance	Yes
13	Warranty	2 years comprehensive warranty on UPS and Batteries



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14	Authorization Certificate	Vendors quoting on behalf of OEM shall have to provide Bid Specific MAF (Manufacturers Authorization Form)
15	OEM CRITERIA -	
15.1	Manufacturer	The bidder should be a manufacturer of UPS Systems for the last 5 financial years as on 31.03.2024.
15.2	Certifications	The product quoted by the bidder should be BIS Certified for safety. ISO 9001 2015, ISO 14001 2015, ISO 45001
15.3	OEM Turn Over Criteria	The OEM should have an annual turnover of Rs.350 cr for the last three financial years.
15.4	Experience Criteria	The Bidder or its OEM should have regularly, manufactured and supplied same Products to any Central /State Govt Organization / PSU / Public Listed Company for last 3 years.
15.5	Service Support Criteria	Dedicated / toll Free Telephone No. for Service Support: OEM must have Dedicated / toll Free Telephone No. for Service Support. Escalation Matrix For Service Support: Bidder / OEM must provide Escalation Matrix of Telephone Numbers for Service Support. Service request can be logged from OEM website as well as by dedicated whatsapp no. Details should be submitted along with bid. The OEM should have service center of minimum 150 nos with GST No. for every state to attend the complaints. The OEM should have Repair & Rectification Centre (RRC) in minimum 22 states to repair and rectify the faults. The OEM should have minimum 13 company owned service centers in North East of India.

Item No. 2 : 600 VA UPS Specification		
Sl. No.	Specification	Requirement
1	Rating	600Va Line - Interactive (Watt 360Watt)
2	Input Voltage Range	140 - 300 AC
3	Cold Start (0 - 100 % load)	Yes
4	Input Frequency 50 Hz	50 Hz
5	Input Nominal Frequency Range	50Hz +/- 3 Hz
6	Protection: Input battery Protection for Deep Discharge. Surge Suppression for spikes and surge at AC input	Input battery Protection for Deep Discharge. Surge Suppression for spikes and surge at AC input
7	Battery	7 Ah inbuilt SMF battery
8	Battery Voltage 12V	12V
9	Efficiency (battery Mode)	Above 85 %



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10	Nominal Output Voltage	230V AC
11	Output Voltage Wave form (Battery mode)	Stepped sine wave
12	Transfer Time	2 - 6 ms Typical , 10ms Max
13	Frequency Line mode	Same as input
14	Battery Mode	50HZ +/- 1 Hz
15	Short circuit protection	Yes
16	SCP Line mode	Fuse
17	SCP Battery mode	Electronic
18	Environmental	0'C to +40'C, 0 to 90 % relative Humidity(Non Condensing)
19	OEM Certification	ISO 9001, ISO 14001,ISO 45001, BIS Certificate
20	Generator Compatibility	Yes
21	OEM Criteria:	
21.1	Manufacturer	The OEM should be a manufacturer of UPS Systems for the last 10 financial years as on 31.03.2023.
21.2	Certifications	The product quoted by the bidder should be BIS Certified for safety.
21.3	Turn Over	The OEM should have an annual turnover of Rs.500 crores for the last three financial years.
21.4	Experience Criteria	The Bidder or its OEM should have regularly, manufactured and supplied same Products to any Central /State Govt Organization / PSU / Public Listed Company for last 3 years.
21.5	Service Support Criteria	Dedicated / toll Free Telephone No. for Service Support : OEM must have Dedicated / toll Free Telephone No. for Service Support. Escalation Matrix For Service Support: Bidder / OEM must provide Escalation Matrix of Telephone Numbers for Service Support. Service request can be logged from OEM website as well as by dedicated whatsapp no. Details should be submitted along with bid. The OEM should have service centre of minimum 150 no's for every state in INDIA to attend the complaints. The OEM should have Repair & Rectification Centre (RRC) in minimum 22 states in INDIA to repair and rectify the faults. The OEM should have minimum 13 service centres in North East of India including 1 must have in Assam with adequate manpower. Service engineers contact details should be available in OEM website.
22	Warranty	2 years comprehensive warranty on UPS and Batteries
23	Authorization Certificate	Vendors quoting on behalf of OEM shall have to provide Bid Specific MAF (Manufacturers Authorization Form)



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Item No. 3 : Interactive Panel Specification			
Sl. No.	Technical specification		
1	Panel	Panel size	65" and 75" (Separate).
		Display Grade	Commercial A or better
		Display Backlight	DLED or better
		Display Panel Technology	IPS or VA or better
		Aspect Ratio	16:09
		Display Resolution	3840(V) x 2160(H) (UHD)
		Refresh Rate	60HZ
		Brightness with glass	400 nits 400cd/m ²
		Static Contrast ratio	5000:1
		Dynamic Contrast ratio	30000:1
		Viewing angle	178°(H)/178°(V)
		Screen Response time	<8ms
		Protective Glass	anti-glare tempered glass with surface hardness
		Glass Hardness / Surface Protection	9H
Operation Hours / System Life	Minimum 50,000 hrs		
2	In Built System / Android	Operating system	Android version 13.0 or Higher
		Minimum Processor	Quad-core {Cortex-A55 x 4 (1.92GHz)} or Above
		RAM	4 GB or Above
		Storage	64 GB or Above
		GPU	Mali-G52 MP2 (2EE)
3	Touch	Touch Technology	Infrared Touch
		Multi-touch capability	Max.40 Points (windows), Max.40 Points (Android)
		Touch Response time	< 6ms
		writing method	Fingure & Stylus Pen
		Touch pen Requirement	2 stylus pens with magnetic fixture
		Touch detect type of pen	Passive
		Palm Detection	Yes
		Pen & Finger differentiation	Yes
Touch Compatibility	Windows/Android/Linux/mac		
6	OPS / PC (Optional)	Windows O. S	Windows 11 Pro OS Loaded
		Processor	Intel i5 processor with 12th gen or above



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		RAM	8 GB DDR4 or higher
		Storage	256GB SSD or above
		windows CPU Sata HD Size	1TB or above (optional)
7	Ports	Speakers	20W+20W Speaker
		HDMI IN	2
		3.5 mm Audio In	1
		3.5 mm Audio Out	1
		USB 3.0	3
		USB 2.0	2
		USB Type C	1
		LAN Port	2*10/100M NIC Built in
		Bluetooth support version	5.0 or above
		Built in wifi connectivity	2.4 Ghz & 5 Ghz supported
		8	Software Features
WBS should have following features			
Tools for Writing and erasing			
Tools for drawing different 2D and 3D shapes			
convert any already written free writing to text in a whiteboard session			
search inside the whiteboard in Google on whiteboard session			
page to automatically scroll right side as the writing reaches the end of right side and scrolls up ward as writing reaches bottom of board			
WBS to Save whiteboard session in image, pdf and virtual file			
Auto shapes recognition			
Two color pen - Use single styles pen front and back side to write with any 2 different color.			
Support for Endless canvas in any teaching background			
Device Central Management	Inbuilt classroom Addressing Software, with following features		
	No additional Infrastructure required. Uses existing LAN/WiFi		
	Can play images, text, audio and video, ip camera		
	Can view IFP screen as a Remote Desktop		
	On/Off the IDP remotely.		



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			create On/off schedule for a panel or a set of panels
			Remote Android Application Management and Install firmware.
9	Accessories	Wall Mount Clamp	wall mount accessories must be included with panel
9	Certification	Certification	The product quoted by the bidder should be BIS Certified for safety.
			The OEM should offer ISO 9001:2015, ISO 14001:2015, ISO 27001: 2013, ISO 45000:2018 for their manufacturing process.
			The OEM should offer CMMI Level 5 Certificate for their performance across critical business capabilities.
10	Product Warranty	Onsite Warranty Support	On site comprehensive warranty for 3 years inclusive of all associated hardware and software of Interactive Panel
11	OEM Criteria	Bid Specific Authorization (MAF)	The OEM should provide Bid Specific authorisation letter to the bidder with three years warranty on all the quoted products.
		Factory Setup in India	The OEM should have its own factory in India and the factory should be registered in the OEMs name itself. The OEM should offer India factory license in its own name. OEMs getting their products manufactured by a third party manufacturing company will not be considered eligible.
		Local Service Support	The OEM should have a dedicated online support call center operational during working hours and a fully equipped repair and maintenance office in Guwahati, Assam.
		Local Presence	The OEM should have the presence of a local branch office and a local service center within the city since the last twelve years from the date of the Tender. This is essential such that the local service team is readily available for any emergencies
		Compliance	Technical Compliance/Datasheet of the offered products etc. must be furnished on OEM letter head

Item No. 4: Tower Commercial Desktop (Provide separate rate quotations for Factory Pre-loaded license version and DOS.)**

Component	Technical Description
Form Factor	Tower / Micro Tower more than 20 litres



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Processor	Intel Core i5 Processor with support for atleast 2.5Ghz (10 core, 20 MB Intel® Smart Cache) or higher or any equivalent processor (Processor should not be launched before Q1 2023)
Chipset / Motherboard	Intel 700 Series Motherboard's. Manufacturer's logo must be embossed (not sticker allowed) in the motherboard.
Storage	512 GB / M.2 2280 PCI-e SSD
Memory	2x 8GB DDR5 2 DIMM Slots, Natively, Expandable up to 64 GB of Dual-channel DDR5
Keyboard & Mouse	Wired Keyboard & Mouse (Same OEM)
Ports	4x SATA3 6.0 Gb/s Connectors, 1x HDMI 2.1, 1x Display Port with DSC, 1 x Type C USB 3.2 Gen 2 (20Gb/s) in front, 2x Type A USB 3.2 Gen 2 (10Gb/s), 2x Type A USB 3.2 Gen 2 (5Gb/s), 2x Type A USB 2.0, 5.1 CH HD Audio, 3 AUDIO PORTS
Expansion Slots	2x PCI Express x1 Gen4 Slot, 1 x PCI Express x16 Gen4 Slot, 2x M.2 for storage and WiFi
Power Supply	250W Internal Power Supply with 85% Efficiency
Operating System **	Windows 11 Home with Factory Preloaded. Windows Digital Product Key should be embedded in BIOS / OEM MAF or DOS
OS Support / Drivers	Support for Windows 11 Pro and Boss Linux . Quoted model's Hardware Drivers must be available in OEM website for download. Above asked OS certifications for the quoted model is must and must be available in public website
Security	Discrete TPM 2.0 or better
Certification	Quoted model should be certified for RoHS, EPEAT Gold India, FCC, Energy Star 8.0, CE, UL/MET, Windows. OEM should also have ISO 9001, 14001, ISO 20001, 27001 & 50001 certifications
Input Devices	USB Wired Keyboard with Indian Rupee Symbol; Scroll Mouse (both Same Desktop OEM make)
Network interface	2.5 Gigabit LAN 10/100/1000/2500 Mb/s
Audio	Integrated HD Audio.
Video connectors	1 x HDMI 2.1 and 1x Display Port with DSC
Monitor	IPS 21.5" display with Resolution 1920x1080 (VGA+HDMI) with internal speaker and TCO certified. All necessary ports (without convertor) and connectivity to desktop must be provided. Same OEM make
Warranty	3 (Three) Years onsite OEM Comprehensive Warranty. OEM Warranty should be visible in the OEM website in respect to each product serial number.
OEM Criteria	OEM must have local service center in Assam and North East from last 5 years. List of OEM's Service Centre at Assam must be enclosed. OEM must be registered in India since last 15 years or more.
Certification	OEM or Bidder should have ISO 27001, ISO 20001, ISO 9001: 2015, ISO 14001 :2015 Quoted model should be certified for RoHS, EPEAT Gold India, FCC, Energy Star 8.0, CE, UL/MET, Windows. OEM should also have ISO 9001, 14001, ISO 20001, 27001 & 50001 certifications
Authorization	Bid Specific Authorization from Bidder for this Bid specific signed by POA person should be Director, CFO.



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Compliance	Technical Compliance/Datasheet of the offered products etc. must be furnished on OEM letter head
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Specification	Specification Name	Technical Specification
Processor	Processor Make	Intel
	Processor Generation	12.0,
	Number of Cores per Processor	10,
	Processor Description	Intel Core i5,
Operating System	Operating System (Factory Pre-Loaded)	Windows 11 Professional
Memory	Type of RAM	DDR4,
	RAM Size (GB)	16,
	RAM Expandability up to(using spare DIMM Slots in GB)	32,
Storage	Type of Drives used to populate the Internal Bays	SSD
	Total HDD Capacity (GB)	0
	Capacity of each SSD (GB)	512
	Total SSD Capacity (GB)	512,
Connectivity	Wireless Connectivity	Yes
Display	Display Size (Inch)	14, or 15.6,
	Display Type	Non Touch,
	Backlit Keyboard	Yes
Warranty	On Site OEM Warranty (Year)(OEM/ Authorised channel partner shall note that W/G to be fulfilled by OEM at site)	3 Years Onsite
OEM Criteria	Local Service Centre	OEM must have local service center in Assam and North East from last 5 years. List of OEM's Service Centre at Assam must be enclosed.
	India Factory License	OEM must be registered in India since last 15 years or more.
	OEM Certification	OEM or Bidder should have ISO 27001, ISO 20001, ISO 9001: 2015,ISO 14001 :2015



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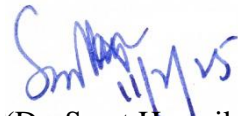
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	Product Certification	Quoted model should be certified for RoHS, EPEAT Gold India, FCC, Energy Star 8.0, CE, UL/MET, Windows. OEM should also have ISO 9001, 14001, ISO 20001, 27001 & 50001 certifications
	Bid Specific Authorization (MAF)	Bid Specific Authorization from Bidder for this Bid specific signed by POA person should be Director, CFO.
	Technical Compliance sheet	Technical Compliance/Datasheet of the offered products etc. must be furnished on OEM letter head
Item No. 6: Multi Functional Printer.		
1.	Ink Tank Printer	Reputed Brand

The undersigned reserves the right to accept or reject any quotation without assigning any reason.

Terms and Condition:

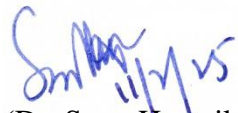
1. Interested firm must visit, if needed for survey before submitting the quotation.
2. The quantity of items shall be finalised after consultation with the supplier.


(Dr. Sarat Hazarika)
Registrar
Date: 11.02.2025

Memo No: MSSV/R/86/2018/**28981-86**

Copy to:

1. The Secretary to the Hon'ble Vice-Chancellor.
2. The Co-ordinator for favour of information.
3. The Deputy Registrar (Academic) for information and necessary action.
4. Dr. Santanu Kalita, Asstt. Professor & Head (i/c), Deptt. of Computer Application with a request to upload the notification in the University website www.mssv.ac.in.
5. The Accounts Officer, MSSV for information and necessary action.
6. Notice Board.
7. Office file.


(Dr. Sarat Hazarika)
Registrar