



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/86/2018/23874

Date: 27.07.2023

INVITATION OF QUOTATIONS

Sealed Quotations are invited from the competent and qualified registered firm for supply of online UPS items to the Mahapurusha Srimanta Sankaradeva Viswavidyalaya (MSSV), Nagaon. The quotations must reach the office of the undersigned on or before 4th August, 2023. The specifications of the LAN items are as follows:

TECHNICAL SPECIFICATION of 20 kVA Online UPS	
Capacity	20 kVA / 18 kW
PARAMETER	Online double conversion UPS with DSP controller
Input/Output	3PH / 1PH
Phase	Three Phase with Ground (R-Y-B-N-G)
Voltage Range	190VAC-478VAC (Based on Load percentage)
Line Low Transfer	(0~50% : 110V / 51~100% : 176V) ± 3%Vac
Line low comeback	Line Low Transfer +10VAC (±3%)
Line high transfer	276VAC (±3%)
Line high comeback	266VAC (±3%)
Frequency Range	45-55Hz / 55-65Hz (50/60 Hz Auto sensing)
Power Factor	0.99 to unity. (I/P:230V,FULL RCD LOAD) / 0.95 (above 25% Load)
THDi	< 5% with full Load
Bypass	
Voltage Range	176~264V (Default) can be adjustable 176 ~276V AC
Line low comeback	Line Low Loss + 10VAC
Line high comeback	Line Low Loss - 10VAC
Frequency Range	45-55Hz / 55-65Hz
Output	
Inverter Topology	3 Level inverter
Voltage	200 VAC / 208 VAC / 220 VAC / 230 VAC / 240 VAC
Voltage Regulation	+ / - 1%
Frequency	50/60 Hz +/- 0.1Hz (free Running Mode)
Synchronization range	46-54Hz / 54-66Hz
Voltage distortion	≤ 2% (linear load)
	≤ 5% (non-linear load)



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Output Waveform	Pure sine wave
Crest Factor	3:1
Efficiency (AC - AC)	Upto 94%
De-rating Characteristics	208V-90% Output at 208V
Maintenance Bypass	Make before break
Power Factor	0.9
Overload	
	101%~109% : 5 min
	110%~129% : 1 min
	130%~150% : 10 Sec
	>150% : 2 Sec
Battery	
Battery Type	SMF VRLA
DC Voltage	Not less than 288VDC
VAH	Minimum 24192 Vah should be provided for 4 hrs backup
Charger	Built-in solid state three stage recharge (constant current ,Constant voltage with float charge) and with Temperature Compensation.
Transfer time	
Line mode to battery mode	0 ms
Inverter to bypass, ECO mode	0 ms
Bypass to Inverter	0 ms
ECO to Inverter mode	<10ms When Bypass voltage or frequency is out of range
Features	
ECO Mode	Yes
Fan Speed Control	Yes
EPO Function	Yes
Frequency Converter Mode	Yes (derated to 60 % when the input source is 1phase) & Bypass output is Disabled.
Parallel function	Up to 4 units
Backfeed Protection	Yes
Isolation transformer	Inbuilt Isolation transformer should be provided in the input side
General	
Operating Temperature	0 to 45 Deg. C
Noise level	<55 dB @ 1 meter



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Display & Indication	User Friendly Dot matrix LCD Display
	Input : Voltage & frequency
	Battery : Voltage & Level in %
	Internal DC Bus voltage & Internal temperature
	Output : Voltage , frequency, current, power and Load Level in %
	UPS Status : Operating Mode / Warning / Fault / codes (faults & warnings)
	UPS Setting : Output Voltage / Frequency / Bypass Enable / Disable / special function: (UPS / CVCF / ECO)
Status LED	Normal Mode / Load on Battery / Load on Bypass / System Fault
Audible Alarm	Mains Failure alarm
	Low Battery Alarm
	UPS Warning ,Overload ,Fault & Bypass mode etc..
Protections	Advanced electronic protection for device
	safety backed with MCBs
	Fast acting fuses,
	High speed pulse blanking
	Electronic overvoltage / undervoltage
Connection	Terminal Block for input / bypass / battery & output
Bypass	Static Bypass
Maintenance Bypass Switch	Available
Communication Interface	
Standard	RS 232/USB port for software interface (any one can be used at a time)
Intelligent slot	SNMP/RS485
Other Interface	AS400
Certification	Test certificate from NABL accredited Test (IEC 62040-3)
	ISO 9001:2015/ ISO 14001:2015/ ISO 45001:2018
Warranty	2 years on UPS and 2 years on batteries
OEM CRITERIA -	
Manufacturer	The bidder should be a manufacturer of UPS Systems for the last 5 financial years as on 31.03.2020.
Certifications	The product quoted by the bidder should be BIS Certified for safety.



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Turn Over	The OEM should have an annual turnover of Rs.350 crores for the last three financial years.
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.
SLA	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.
	The OEM should have service centre of minimum 150 nos with GST No. for every state to attend the compliants.
	The OEM should have Repair & Rectification Centre (RRC) in minimum 22 states to repair and rectify the faults.
	The OEM should have minimum 13 service centres in North East of India


(Dr. M. K. Borah)
Registrar

Memo No: MSSV/R/86/2018/23875-78

Date: 27.07.2023

Copy to:

1. The Secretary to the Hon'ble Vice-Chancellor.
2. The Director (F & P) cum Chief Co-ordinator for favour of information.
3. 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.
4. The Assistant Registrar (Finance) for information and necessary action.
5. Notice Board.
6. Office file.


(Dr. M.K. Borah)
Registrar