

**SRI KARAN NARENDRA COLLEGE OF AGRICULTURE, SKNAU, JOBNER**  
**JAIPUR, RAJASTHAN- 303329**

No.LIB/F2/2023/405

Dated 02/02/2024

**Notice for Inviting Quotations**

Sealed quotations are invited for direct purchase of OEM online 15 KVS UPS with a buyback old UPS option. The quotations will be accepted up to 07/02/2024 at 11.00 AM and will be opened on the same day at the Department of Extension Education, SKNCOA, Jobner at 3.00 PM

**TECHNICAL SPECIFICATIONS FOR ONLINE UPS:**

Rating	15 KVA (3-1)
Battery DC Voltage (VDC)	360 VDC
General	UPSs are free from workmanship defects, sharp edges, nicks, scratches, burns, etc. All fasteners are fixed properly. The equipment shall be complete with all parts and all parts shall be functional. (ii) UPS enclosure's degree of protection shall be IP2L1 as per appendix C of IS 13947 (part 1)/ 1993 (reaffirmed 2004) (iii) Provision of manual By-pass facility for maintenance of UPS (iv) UPS shall supply output power and charging current at the same time.
Switching Device	MOSFET/ IGBT
Switching Frequency	> 10 KHz
Input Voltage	<ul style="list-style-type: none"><li>• 160 V – 260V, 50 ± 3% Hz, Single phase AC or</li><li>• 300 V – 450 V, 50 ± 3% Hz, three-phase AC</li></ul>
Input Power factor	> 0.95 (lagging)
Output	<ul style="list-style-type: none"><li>• 230 V/ 220 V ± 1%, 50 ± 0.5 Hz, single phase</li><li>• 400V / 380V ± 1%, 50 ± 0.5 Hz, three-phase</li></ul>
KW rating of the UPS	0.7 time the KVA rating (Standard), 0.8/0.9 (optional)
Voltage Regulation	Within ± 1 % (from no load to full load) for both single / three-phase
Facility for operation in	Provided i.e. Output frequency shall be the same as that of the mains frequency

synchronous mode		
Total Harmonics distortion at output	<ul style="list-style-type: none"> <li>• 2 % maximum up to 5.0 KVA &amp;</li> <li>• 3 % maximum above 5.0 KVA on resistive load</li> </ul>	When total input harmonics are $\leq 10\%$
Efficiency	At rated output KVA rating, rated power factor, rated voltage, and frequency (overall efficiency): 90%	
Overload	UPS shall withstand 20 % overload for 10 minutes and 50 % overload for one minute	
Protections	<ul style="list-style-type: none"> <li>• Over voltage</li> <li>• Short Circuits</li> <li>• Overload at output terminal</li> <li>• Under voltage at the battery terminal</li> <li>• Overshoot and undershoot: <math>&lt; 4\%</math> of rated voltage for a duration of 40 m sec. (maximum)</li> </ul>	
Indicators	<ul style="list-style-type: none"> <li>• Mains presence</li> <li>• Battery Charging &amp; discharging</li> <li>• Output overload</li> <li>• Low battery voltage</li> </ul>	
Meters	Provision of a Digital Meter for monitoring the following parameters: <ul style="list-style-type: none"> <li>• Input AC voltage</li> <li>• Output AC voltage, current, and frequency</li> <li>• Battery voltage &amp; current</li> </ul>	
Noise (dB), Temperature and RH	$< 45$ dB (1 meter), 0-40 OC, 0-95 % (No condensation)	
Alarm	Battery low voltage, abnormal power supply, UPS failure	
Bypass	Static Bypass system for Automatic Transfer	
Inbuild Isolation Transformer Provided	Isolation Transformer	
Certifications	ISO 9001, ISO 14001, ISO 45001 ISO 27001, RoHS and CE Certification	
Type Test Report	The Bidder shall submit a type test report of similar or higher rating issued from EPRI /ETDC (STQC) / ERTL	

  
Assistant Librarian

**Other terms and conditions:**

1. The quoted rates should be in terms of unit price inclusive of all taxes & GST etc.
2. No advance payment on any account will be made.
3. 3 years warranty for supplied items with free onsite installation.
4. Supply should be for Library SKNCOA, Jobner.
5. The dean/ committee has the right to accept or reject any quotations with assigning reasons thereof.

**CC to forward for information and necessary action to:**

1. Dean, SKNCOA, Jobner
2. In charge of CIMCA, SKNAU, Jobner with the request to upload the tender notice on the University website
3. Convener/ Member/SKNCOA Tender Committee
4. Accounts/Storekeeper, library, SKNCOA, Jobner
5. All Notice Board

  
Assistant Librarian

