



Dated... 07/02/2020..

Tender Ref.No Eco/Tender Notice/175/19-20

Date:

Tender Notice

Quotations are invited for Online UPS System:

**TECHNICAL SPECIFICATIONS FOR 5KVA TRUE ONLINE UPS WITH
INBUILT ISOLATION TRANSFORMER**

SNo.	Parameter	Required Specification
1.	Technology	True On-Line Double Conversion UPS with PWM-IGBT technology.
2.	Capacity	15KVA/13.5 KW @ 0.9 p.f. On-Line UPS with Inbuilt Isolation Transformer using PWM IGBT technology
3.	AC Input Voltage Range	300-470 V AC, 3 Phase
4.	Integrated Surge Protection Device	UPS should have inbuilt 3 Phase, Type 2 surge arrester (50kA) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage that originate during atmospheric discharges or switching processes Datasheet of SPD should be provided
5.	Input Frequency	50Hz \pm 10% (Suitable for Generators)
6.	AC Out-Put voltage	230 V AC, 1-phase \pm 1% (Sine Wave Output)
7.	Out Put Frequency	50 Hz \pm 0.05 Hz
8.	Over Load Capacity	125% for 10 minutes, 150% for 60 seconds
9.	Crest Factor	4:1 or higher
10.	Harmonic Distortion	< 2% (for linear loads) & < 5% (for non linear loads)
11.	Isolation Transformer	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
12.	Indication & Audible Alarms	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low.
13.	Digital Metering	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
14.	Battery Backup & Other Details	The system must be capable of providing battery back-up time of 30 mins. using 12V, VRLA Sealed Maintenance Free Batteries. Battery Bus Voltage: 336Volt. Required VAH : 14100 VAH for 30 minutes back-up with each UPS Battery Make: EXIDE/QUANTA/ROCKET
	Environmental	
15.	Operating Temperature:	0 Degree C to 40 Degree C
16.	Relative humidity	0% to 95%, non-condensing
17.	Certifications	<ul style="list-style-type: none"> • CE Certification(IEC 62040-1 & IEC 62040-2) • ISO 9001, ISO 14001, ISO 14064-1,ISO 27001, BIS, OHSAS 18001 certified. • RoHS Compliance Copies of the above certifications should be submitted with the technical Bid (compulsory).
18.	After Sales Support & Manufacturer's Credibility	<ul style="list-style-type: none"> • Bidder should have a dedicated Toll Free No. for service call logging & resolution • Bidder and OEM should have manufacturing facility in INDIA and own Office and service centre at KOLKATA for last 5 years. (Documentary evidence to be provided) • The bidder and OEM should not have been blacklisted or debarred from business at any point of time during last 10 years by any Govt./PSU undertaking. Undertaking to this effect must be submitted.

(Signature)

Head of the Dept. of Economics
University of Calcutta

19	Support	02 Years comprehensive warranty
20	Acceptable Makes	APC/VERTIV/ORION/EATON/ABB

OEM Certification	<ul style="list-style-type: none"> • CE Certification(confirming to IEC 62040-1 &IEC 62040-2Standards) • ISO 9001, ISO 14001, OHSAS 18001certified. • ISO27001 • RoHSCompliance <p>Copies of the above certifications should be submitted with the technical Bid (compulsory).</p>
After Sales Support & Manufacturer's Credibility	<ul style="list-style-type: none"> • Bidder / OEM should have a dedicated Contact Free No. for service call logging & resolution • OEM should have manufacturing facility in INDIA and own Office and service centre at KOLKATA for last 5 years. (Documentary evidence to beprovided) • The bidder and OEM should not have been blacklisted or debarred from business at any point of time during last 10 years by any Govt./PSU undertaking. Undertaking to this effect must be submitted.
Acceptable Makes	APC/VERTIV/ORION/EATON/ABB/ Equivalent
Support	02 Year comprehensive warranty

Interested suppliers are requested **to drop their quotation in the Tender Box.**

Quotations are to be sent to the following address **within 7days.**

To
The HOD,
DEPARTMENT OF ECONOMICS,
56A, BARRACKPORE TRUNK
ROAD, KOLKATA-700050.



Head of the Dept. of Economics
University of Calcutta