



**Centre For Research In Nanoscience And Nanotechnology
University of Calcutta**

Notice inviting Quotation No. Dir/276/NIT /UPS/CRNN(2018) Dt. 31.12.2018

Sealed tender bids are hereby invited from authorized suppliers/ agents along with necessary business documents for 02 nos. 2KVA online UPS. Specifications of the online UPS are given below. Intended agencies are requested to submit their bids including the current Trade License, PAN, GST certificate in closed envelopes. Tender should reach the office of the CRNN, University of Calcutta, JD-II, Sec- III, Salt Lake, Kolkata:- 700106, within 16th January, 2019 by 4pm.

Category	Item Description
Configuration	2 KVA On-Line UPS System with Inbuilt Isolation Transformer.
Technology	True On-Line Double Conversion UPS with PWM-IGBT technology.
Capacity	2 KVA/1.8 KW @ 0.8 p.f.
AC Input Voltage Range	160-280 V AC,
Input Frequency	50Hz \pm 10% (Suitable for Generators)
AC Output Voltage	230 V AC, 1-phase \pm 1% (Sine Wave Output)
Output Frequency	50 Hz \pm 0.05 Hz
Overload Capacity	125% for 10 minutes, 150% for 60 seconds
Crest Factor	Better than 3:1
Harmonic Distortion	<2% for Linear loads and <5% for Non-Linear Loads
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.
Ambient Conditions	Operating Temp: 0-40 Deg C Relative Humidity: 95% Max. non-condensing
Indications & Audible Alarms	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low
Digital Metering	Digital display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
Battery Back-up & Other Details	<ul style="list-style-type: none"> • The system must be capable of providing requisite battery back-up time of 30-40 mins using Sealed Maintenance Free Batteries. • Required VAH : 3000 VAH for 30 mins back-up • Only single string battery bank to be used. (No paralleling of Batteries) • Battery make: EXIDE/QUANTA/ROCKET or equivalent.
Certification	<ul style="list-style-type: none"> • CE Certification(confirming to IEC 62040-1 & IEC 62040-2 Standards) • ISO 9001, ISO 14001, ISO 27001, OHSAS 18001 certified. • RoHS & BIS Compliance Copies of the above certifications should be submitted with the technical Bid.
After Sales Support & Manufacturer's Credibility	<ul style="list-style-type: none"> • UPS OEM should have a dedicated Toll Free No. for service call logging & resolution. • UPS OEM should not have been debarred/blacklisted in any Govt Department/Undertaking/PSU within last 05 years (affidavit to be enclosed) • UPS OEM should have its own service personnel for local support Stationed in Kolkata. • Bidder/OEM shall be confirmed to provide Comprehensive AMC Support minimum 5 years after expired the warranty period. Undertaking for the same required to be submitted.

Technical Terms and Conditions

1. Technical bid should also contain a “Compliance Certificate” duly signed by the manufacturer or bidder.
2. Our preferable brand is Orion.
3. Installation, testing, commissioning, and integration of the components/equipment purchased is to be done by supplier(s) at our premises. Charges on account of installation and commissioning, if any, should be quoted separately. Otherwise it will be treated that all the charges for the same is included in quoted price
4. Tender Specific Authorization from OEM for participation for this Tender.
5. Bidder or OEM must not be blacklisted at CU or any Government Organization in Country in last 5 Years, copy of the affidavit of same shall required to be submit.
6. Technical Catalogue/Brochure should be enclosed without fail for quoted equipment / devices
7. Tender Specific MAF to be submitted (Documentary proof to be enclosed).
8. Photo copies of IT/PAN/ST/VAT/ GST /ISO Registration Certificate to be enclosed
9. Account No of Bank of the vendor/bidder
10. IFS code of Bank of the vendor/bidder
11. Please note that CU reserves the right to select the Vendor for placing Work Order and lowest Quotation does not guarantee selection of Vendor
12. GST Details to be given

(Prof. D. Guha)
Director, CRNN