

ADDENDUM TO NOTICE INVITING QUOTATION

Further to our earlier notice (<http://www.caluniv.ac.in/tender/BMBB-12-4-18.pdf>) inviting quotation (dt. 12.04.2018) for one '10KVA online UPS with isolation transformer' we are hereby providing the technical specifications below.

Suppliers are hereby requested to submit their quotation including the current Trade License, Service Tax, Registration Certificate, PAN No, Copy of Registration Certificate with Statutory Authorities and other credentials within 10 days from the publication of **this notice** in a sealed envelope addressed to The Head, Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta. The authority reserves the right to accept/reject any quotation without showing any reason thereof.

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19.04. 2018

Technical Specifications for 10 KVA True Online UPS/ 30 mins Backup with Inbuilt Isolation Transformer

| Sl No | Parameter | Required Specifications |
|-------|--|--|
| 1 | Configuration | 10 KVA On-Line UPS System with Inbuilt Isolation Transformer. |
| 2 | Technology | True On-Line Double Conversion UPS with PWM-IGBT technology. |
| 3 | Capacity | 10 KVA/ 9 KW @ 0.9 p.f. |
| 4 | AC Input Voltage Range | 160-280 V AC, |
| 5 | Surge Protection Device | UPS should have inbuilt 1 Phase, Type 2 surge arrester (40kA) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equipotential bonding and eliminate transient overvoltage that originates during atmospheric discharges or switching processes. (Datasheet of SPD should be provided) |
| 6 | Input Frequency | 50Hz \pm 10% (Suitable for Generators) |
| 7 | AC Output Voltage | 230 V AC, 1-phase \pm 1% (Sine Wave Output) |
| 8 | Output Frequency | 50 Hz \pm 0.05 Hz |
| 9 | Inverter Efficiency | Better than 90% |
| 10 | Overload Capacity | 125% for 10 minutes, 150% for 60 seconds |
| 11 | Crest Factor | Better than 4:1 |
| 12 | Harmonic Distortion | Less than 3% |
| 13 | 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. |
| 14 | Ambient Conditions | Operating Temp: 0-50 Deg C |
| | | Relative Humidity: 95% Max. non-condensing |
| 15 | Indications & Audible Alarms | Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low |
| 16 | Digital Metering | Digital display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency. |
| 17 | Battery Back-up & Other Details | The system must be capable of providing requisite battery back-up time of 30 minutes using Sealed Maintenance Free Batteries. Required VAH : 7500 VAH for 30 minutes back-up DC Bus Voltage \geq 180V Only single string battery bank to be used. (No paralleling of Batteries) Battery make: EXIDE / QUANTA/ROCKET/UPLUS or equivalent. |
| 18 | Certification | The offered UPS model should have CE Certification(confirming to IEC 62040-1 & IEC 62040-2 Standards) The UPS OEM should be ISO 9001, ISO 14001, OHSAS 18001 certified. The offered UPS model should have RoHS Compliance Copies of the above certifications should be submitted with the technical Bid (compulsory). |
| 19. | After Sales Support & Manufacturer's Credibility | <ul style="list-style-type: none"> • UPS OEM should have previous experience of supplying similar equipment and value to Govt. Departments. •UPS OEM should have a dedicated Toll Free No. for service call logging & resolution. |
| 20 | Warranty | 1 Years on Site warranty on Machine & Batteries. |