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DEPARTMENT OF BIOPHYSICS,
MOLECULAR BIOLOGY & BIOINFORMATICS

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NOTICE INVITING QUOTATION

Tender No: BMB/02/19-20/UPE

dt: 2/9/2019

Sealed quotation along with all necessary papers (Current Trade License, GST, PAN etc) are invited from bona-fide, efficient & eligible vendors for purchase of one **10KVA True Online UPS** in Dept. of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta (Rajabazar Science College Campus) from **Non-Recurring head of Focus Area-I Modern Biology, of UPE scheme** as per the following specifications within ten days from the publication of this notice. The authority deserves the right to accept/reject any quotation without showing any reason.

Name of Instrument: - 10KVA True Online UPS

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2.9.19.

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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	• 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.

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