UNIVERSITY OF NORTH BENGAL OFFICE OF THE REGISTRAR



ENLIGHTENMENT TO PERFECTION

Quotations are invited in connection to the purchase of 10 KVA Online UPS for the Department of Chemistry, University of North Bengal. The sealed quotations should be addressed to the Head of the Department, Department of Chemistry, University of North Bengal. The quotations should be submitted at the department up to 13.03.2017 till 5.00 P.M.. For details of specifications kindly visit http://nbu.ac.in.

Advt. No. 197/ R-2017 Dated: 03.03.2017

Registrar (Offg.)

Quotations are invited in connection to the purchase of 10 KVA Online UPS for the Department of Chemistry, University of North Bengal. The sealed quotations should be addressed to the Head of the Department, Department of Chemistry, University of North Bengal. The quotations should be submitted at the department up to 13/03/2017 till 5.00 P.M. The details of specifications are attached herewith.

Registrar (Offg.)

Technical Specification for 10 KVA UPS 1phase input & 1 phase out put on line UPS systems	Qty No.
Topology, IGBT BASED DSP CONTROLED	1 No
Rating of UPS(KVA/KW): 10KVA / 9 KW	
Input Voltage: 160-270V	
Input Frequency: 40 to 70 Hz	
Input PF: .99 with IGBT Rectifire	
Isolation Transformer: Delta to Star Inbuilt Isolation Transformer with 1:1 ratio at UPS Input to be provided . No	
external/Step up Transformer will be accepted	
Back feed Protection: UPS should have back feed protection	
DC Ripple: Residual ripple Voltage should be <1%	
Charging: Autometic float cum Boots Charging Capability with setteble flote & boost charging voltages and current	
levels and boots charger timer	
Input current Distortion: THDi<=3%	
Output Voltage: 230V	
Output Voltage Regulation: Static Variation +/_ 1% and Dynamic variation +/-3%	
Output Frequency: 50 Hz +/- 0.1%	
Output Power Factor: 0.9	
Crest Factor: 3:1	
THDu: < 3% (linear load), < 5%(non linear load)	
Waveform: Pure Sine Wave	
Birdge: Microprocessor based and IGBT Technology	
Overload: 110% for 60 minutes, 125% for 10 minutes, 150% for 1 minutes.	
Static By Pass: 100 % rated static switches with fuse protection overload on Bypass: 100% for 10 ms	
Overall Efficiency: 95%	
Battary Cabine: With power coated MS angle with MS sheet suiteble dimention and gadge, well air ventilation to	
ensure the battery optimum life cycle. Useing Nyvin cable with proper rating for interlink cables and battery input	
12V SMF Battery 75 AH 32 No battery	
DC Bus : Minimum 192V or above, 120 mim back up required (Minimum 27000 VAH) Battery. Battery	
Make: Exide/Amar Raja(Quanta) Protections: Input & Output Over / Under Voltage, Single Phasing DC - High / Under Voltage, Battery Charging	
Over Current, Output Overload / Short Circuit / Over Temp., UPS auto ON	
Audio Alarm, Mains Fail, Battery Low Pre-alarm, Inverter Trip	
Metering: Graphical LCD display for Input & Output - Voltage, Current & Frequency, Battery - Voltage & Current	
Indications: Mains - On / Fail / High / Low / Single Phasing DC - On / High, Battery - Low Pre-alarm / Low Trip	
Inverter - On / Trip / High / Low / Over Current	
Switchgear: MCB / MCCB for Input, Battery, Output & Manual Bypass Switch	
Termination: Input, Battery, Output & Bypass	
Enclosure: IP 20	
Operating Temp: 0 to 40 Deg C	
Humidity: Upto 95% Rh (non-condensing)	
Cooling: Forced Air	
Noise: < 55 dB	
Cold Start : Provided	
Parallel Redundant facilities should be present for each unit with Accessories	
Communication: RS 232, RS 485, Dual input Kit,	
Monitoring Software: UPS Monitoring Software on Windows XP Platform	
Certification : ISO 9001: 2015, ISO 14001: 2015, ISO 18001, RoHS and OHSAS 18001	
CE Certification: IEC/EN 62040-1-1, IEC/EN50091-1, IEC/EN 60950 (Safety) IEC/EN 50091-2, IEC/EN 62040-2(EMC	
Emmission), IEC/EN 62040-3(performance & Design) IEC/EN 61000-4(EMC Emmunity) & IEC/EN 60146 (Design &	