

SHORT QUOTATION NOTICE

Sealed quotations are invited for the purchase of 1KVA online UPS with battery backup and stand

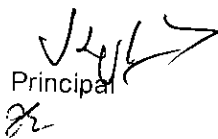
Sl.No	Item with specification	Quantity
1	1KVA online UPS with battery backup and stand (Detailed Specification attached)	UPS - 1 Battery - 3 No.s Stand

Approximate Cost-Rs. 38,000/-

The envelopes containing the quotations should bear the superscription "Qtn. No D3/125/2017-18 due on 30/10/2017" and should be addressed to The Principal, Govt. Engg. College, Thrissur- 680 009. Intending tenderers may submit the quotations on their own papers. Last date of receipt of quotation is 30/10/2017 at 2 pm. Late quotations will not be accepted. The quotations will be opened at Engineering College Office, Thrissur on 31/10/2017 at 11 a.m. in the presence of such of the tenders or their authorized representatives who may be present at that time. The maximum period required for delivery of the articles should also be mentioned.

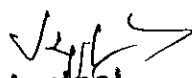
Details of requirements and the conditions governing their supply can be obtained free on request from the undersigned till 30/10/2017- 2 p.m.

- 1) The offer should be valid for a minimum period of 2 months from the date of opening the quotations.
- 2) No advance payment will be given.
- 3) F.O.R. Govt. Engg. College, Thrissur.


Principal

TECHNICAL SPECIFICATIONS FOR 1 KVA ONLINE UPS	
Capacity	1 Kva
Technology	High frequency switching double conversion
Inverter Technology	PWM technology with IGBTs with built In galvanic isolation
Noise Level	Less than 50 dB
Operating Temperature	0-45 degree centigrade
Humidity	0 - 95% non-condensing
Harmonic Distortion	≤2% (linear load) ≤5% (non-linear load)
Total DC bus voltage	36 VDC
Battery recharge time (After Complete discharge) to 100% charge	8 Hours
Crest Factor	Minimum 3:1 at full load
Out put Wave Form	Pure Sine wave
Cold Start feature	Required
INPUT	
Input	1 PHASE
Input Voltage Range	1 phase 230 V AC+ Neutral +earth
Input Frequency Range	46-54Hz
Power Factor	>0.9
OUTPUT	
Output Voltage	220/230 VAC programmable 1 phase+N
Output Frequency	50hz +/- 0.1%
EFFICIENCY	
AC to AC	>90%
STATIC SWITCH (Bi-directional) for all ratings	Should take care of 100% load transfer without break
LOAD POWER FACTOR	0.8% lag to unity
OVERLOAD CAPACITY	150% for 10 SEC ,110% for 1 minute
UPS SHUT DOWN	
	UPS shut down with alarm and Indication in case of
	Out put over voltage
	Output undervoltage
	Battery Low
	Inverter over load
	over temperature
	Output short
ISOLATION	
Isolation of power	Both input & Output have MCB's. Also battery connection have MCB/MCCB/ switch
Isolation Transformer	At input
Galvanic Isolation	Required
Manual Service Bypass	Automatic Static bypass
PROTECTION	

Short Circuit Protection	MCB / MCCB Trips and UPS shut down with out Blowing any fuses
Input over and under voltage	MCB with alarm. UPS safe in the case of high Voltage/High Current/ high spike/ high surges at input to the UPS
Output over & under voltage	MCB with alarm. The load connected to the UPS should be protected under any circumstance
INDICATORS	
	Mains on Inverter On Mains high mains low Inverter over voltage Inverter under voltage Battery Low Battery Over charge Inverter overload/Current Over temperature
LCD DISPLAY	Input/Output voltage Out put frequency Load current Battery voltage
DEGREE OF PROTECTION	IP 20
COMMUNICATION INTERFACE	RS 232 port for auto shut down, SNMP
AUDIBLE ALARM	
	Battery low Mains failure Out put over current Overload
BATTERY	65 AH Amarraja Quanta SMF batteries-03 nos
WARRANTY	3 Years OEM warranty for UPS 2 Years OEM warranty for Battery
QUALITY STANDARDS	
UPS	ISO 9001:2008,14001:2004
BATTERY STAND	Required


Principal
Govt. Engg. College
Thrissur