

GOVERNMENT OF KERALA
DEPARTMENT OF TECHNICAL EDUCATION
GOVT.ENGINEERINGCOLLEGE, THRISSUR

No.D3/5862/2017

Dated: 26 /10/2017

SHORT TENDER NOTICE

Tenders, sealed with sealing wax, are invited for the supply and purchase of 10 KVA online UPS with battery backup and stand for TBI. Tenders should be super scribed as Tender No. D3/126/2017-18 for the supply of 10 KVA online UPS with battery backup and stand and addressed to Principal, Govt. Engineering College, Thrissur,Kerala. The last date for the receipt of Tender is – **24/11/2017 2 p.m.** The tenders will be opened at **11 a.m. on 25/11/2017** in the presence of such tenders or their authorized representatives who may be present at that time. Intending tender may obtain the requisite tender forms from the Principal, Govt.Engineering College, Thrissur on cash remittance of Rs. 1, 344/- + postal charge the price fixed for requisite tender form. Duplicate form, if required, will be issued at Rs - per copy. Tender forms are not transferable. The sale of tender forms will be closed at **12 noon on 24/11/2017.**

Cost of tender forms should be remitted either in cash or by money order 1, 344/-+ Postal charges. Cheques, Postage Stamps, Postal Orders or Demand Drafts will not be accepted towards the cost of tender forms. The forms will not be sent by VPP.

Tenders should be accompanied by EMD of 1%of the amount by DD drawn in favour of the Principal, Govt. Engineering College; Thrissur with an agreement in Kerala Stamp Paper worth Rs.200/-Details can be had from the Govt. Engineering College Office.


PRINCIPAL
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TECHNICAL SPECIFICATIONS FOR 10 KVA ONLINE UPS	
Capacity	10 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	240 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	Three phase 4 wire
Input Voltage Range	415VAC+ Neutral +earth
Input Frequency Range	46-54Hz
Line low/High Cutoff	330 VAC to 478 VAC
Power Factor	>0.9
OUTPUT	
Output Voltage	220/230 VAC programmable 1 phase+N
Output Frequency	50hz +/- 0.5%(Free running)
EFFICIENCY	
AC to AC	93%
DC to AC	94%
STATIC SWITCH (Bi-directional) for all ratings	Should take care of 100% load transfer without break
LOAD POWER FACTOR	0.9% lag to unity
OVERLOAD CAPACITY	125 % for 10 mts
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 hight Voltage/High Current/ high spike/ high surges at input to the UPS
Output over & under voltage	MCB with alarm. The load conneted 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	6 EL 130 AH Exide tubular batteries -20 Nos
WARRANTY	3 Years OEM warranty for UPS 4 Years OEM warranty for Battery
QUALITY STANDARDS	
UPS	ISO 9001:2008,14001:2004
BATTERY STAND	Required