

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES

GA7/5445/2017

Panangad, Dated: 26 /07/2017

TENDER NOTICE

Sealed Competitive tenders are invited for the supply and installation of **10KVA Online (Transformer Type) UPS & 20 No.s of 100AH Tubular Battery for School of Fishery Environment** as per the specifications attached.

The rates quoted should be for delivery and installation of the above items at the Fisheries Station Pudukkottai.

The envelope containing the tender should bear the superscription "**Tender for the supply and Installation of 10KVA Online (Transformer Type) UPS :- GA7/5445/2016**" and should be sent to the Registrar, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi – 682 506, Ernakulam District. Intending firms/individuals can submit their bids in the tender form which can be downloaded from the official website of KUFOS www.kufos.ac.in More details will be obtained from the office of Dr. Devika Pillai Prof. & Director i/c SFE on permission of the undersigned on all working hours. An amount of Rs.600/- as tender fee and an amount of Rs.3000.00 as EMD should be submitted along with Tenders as DD drawn in Favour of Finance Officer KUFOS payable at SBI Vyttila.

The rate quoted should be firm and inclusive of all taxes and supply and installation at Fisheries Station Pudukkottai, KUFOS. Period of firmness during which the rates would be firm is 60 days from the date of supply orders

Late quotations will not be accepted. The Quotations will be opened in the presence of the quotationers or their authorized representative who may be present at the venue.

Last date & time for receipt of quotation	16.08.17	Upto 11 a.m
Date & time of opening of quotation	16.08.17	at 11.30 a.m.

All the terms and conditions applicable to University/Government quotation are admissible to the quotation also. Right to accept the quotation in full or in part or to reject without assigning any reason is reserved to the Registrar, KUFOS, Panangad, Kochi.

**Sd/
REGISTRAR**

Make : APC/MICROTEK/TECHSER

TECHNICAL SPECIFICATIONS FOR 10 KVA ONLINE UPS	
Capacity	10 Kva
Technology	Digital signal processor controlled True Online, High Frequency
Inverter Technology	PWM technology with IGBTs with built In galvanic isolation
Noise Level	Less than 50 dB
Operating Temperature	0-45 degree centigrade
Humidity	10 to 95% no-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 unit
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 I 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	100 AH Exide Tubular battery-20 Nos
WARRANTY	3 Years for UPS
	4 Years for Battery (Manufature Warranty)
QUALITY STANDARDS	
UPS	ISO 9001:2008
BATTERY	ISO 14001
BATTERY STAND	Required