



## UNIVERSITY OF KERALA

Kariavattom Campus, Thiruvananthapuram, Kerala, India - 695 581

Co-Ordinator, PURSE Programme

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26/05/PURSE/2015

Dated 23.11.2015

### Quotation Notice

Sealed competitive quotations are invited from the manufacturers/suppliers, for the immediate supply of following hardware items for the use in the PURSE central facility, University of Kerala, Kariavattom.

Items	Qty	Specification
UPS - 5 kVA with battery	1	As given in detailed specification
Network Switch	1	As given in detailed specification

#### Terms and conditions

- The price quoted should be for supply, installation, demonstration and testing at the University campus, Kariavattom.
- Quantity of items may vary with respect to our requirements.
- The hardware should have a warranty for 3 years.
- Immediate after sales service should be provided within 24 hours.
- The Co-Ordinator PURSE, University of Kerala, reserves the right to accept or reject any or all tenders without assigning any reason thereof.
- The quotations, complete in all respects should reach the "Co-Ordinator PURSE, University of Kerala, Kariavattom, Thiruvananthapuram -695 581" before 4pm on 07-12-2015.

Co-Ordinator  
PURSE Programme  
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**PURSE Programme**

## DETAILED SPECIFICATION

### 1. UPS - Single Phase Input and Single Phase Output with 4 hours backup with full load

Brand & Model	Hykon/Eaton/APC		
Capacity	5 kVA		
	5000VA/3500W		
Input	Voltage	170-270VAC	
	Frequency Range	50+/- 2 Hz	
	Phase	Single phase with ground	
Output	Voltage	230 VAC + / - 1%	
	Voltage Regulation	230 VAC + / - 1%	
	Frequency(Synchronized Ran)	50 +/- 1% Hz	
	Frequency(Battery Mode)	50 +/- 1% Hz	
	Current Crest Ratio	3:01	
	Harmonic Distortion	<= 4 % THD (Linear Load)	
		<= 7% THD (Non-Linear Load)	
Output Waveform	Pure Sine wave		
Efficiency	Inverter	0.9 or more	
Battery charger	IGBT (AE)	120V	
	Charging Current (Max.)	8.0A or more	
Transfer Time	AC to DC	Zero	
	Inverter to Bypass (Optional)	2.5ms	
Display	Programmable 1X16 character backlit LCD		
	Status	Load Level/Battery Level/Battery Low/Frequency/Input & Ouput Voltage/Trip	
Protection	Overload	110% for 10 sec- Trip	
Audible Alarm	Battery low	Continuous buzzer	
	Overload	Continuous buzzer	
Environment	Operating Environment	0- 40 <sup>0</sup> C	
	Relative Humidity	20-90% (Non-Condensing)	
	Noise Level	< 50dB @ 1 Meter	
UPS Battery with stand and interlinks	Brand	Batteries from reputed brands	
	Type	Tubular	
	Minimum VAh rating	21600VAh or more	
Warranty	3 Years for UPS and Battery		

2. Network Switch

Brand & Model	HP/Juniper/Cisco	
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet	
Ports	48 RJ-45 auto 10/100/1000 ports plus 4 SFP 1000 Mbps ports	
Performance	100 Mb Latency	< 5 $\mu$ s
	1000 Mb Latency	< 5 $\mu$ s
	Throughput	77.4 million pps
	Routing/Switching capacity	104 Gbps
	Routing table size	32 entries
	MAC Address table size	16384 entries
Services	3 years warranty	
Memory and processor	MIPS @ 650 MHz, 32 MB flash, 128 MB SDRAM; packet buffer size: 12 Mb	