

NOTICE INVITING QUOTATION

Sub:-Inviting quotation for supply and installation of Online- UPS of 3KVA with 1 hour full load back-up for energy meter calibration lab in Energy Management Centre-(EMC) Kerala.

Competitive quotations are invited for supply and installation of Online UPS- of 3 KVA with 1 hour full load backup as per specifications mentioned below.

TECHNICAL SPECIFICATION FOR UPS (3 KVA)

Sl. no	TECHNICAL PARAMETER	PARAMETER DESCRIPTION
1.	Type	Single phase, IGBT Based , Online UPS
2.	Input	240V \pm 2% V AC, 50 \pm 5% Hz, Single phase 3 wire [Phase + Neutral + Ground]
3.	Output	3.0 KVA 240V \pm 2% V AC, 50 \pm 5 Hz, Single phase 3 wire [Phase + Neutral + Ground]
4.	Output Waveform	Sinusoidal
5.	Voltage Regulation	$\leq \pm 2\%$
6.	Inverter Efficiency	90%
7.	Overload Capability	110% for ≥ 10 Minutes
8.	Total Harmonic Distortion [THD]	<5% at Full Load
9.	Transient Response	Less than $\pm 10\%$ voltage variation at sudden application/removal of full load and it shall recover within 500msec.
10.	Environment	Approx.:0-50°C & 60% RH
11.	Charger	Charging mode shall be provided
		Battery Charging Voltage & Current shall be adjustable
		Line & load Regulation: $\leq \pm 2\%$
		Output Ripple : $\leq 3\%$

12.	Battery	Battery shall be of Sealed Maintenance (SMF) or VRLA type Battery Backup shall not be less than 1 Hrs.at full load
13.	Functional Test certificates	1.Insulation Resistance & HV Test(conforms to IS 16242) 2.Load Regulation & Transient Response Test 3.Efficiency 4.Ripples (Pure sinusoidal wave) 5.Battery Capacity Test 6.UPS Function Test 7.Spare PCBs/ Cards Test Report if any
14.	User Manual	Procedure, BOM, Alarm-annunciations, PCB Functions details, PCB Circuit diagrams & Trouble shooting) shall be provided with each UPS
15.	Payment terms	95% of the total amount will be paid after submitting the invoice and balance 5% will be pay after the warranty period
16.	Warranty	1. Three year warranty from the date of invoice.

The envelope containing the quotation, with all taxes and duties and others terms and conditions, should bear the superscription “**Bid for supply of online UPS in EMC Lab** ” and should be addressed to Director, Energy management Centre, Sreekrishna Nagar, Sreekariyam, Thiruvananthapuram-695017

Last date of receipt of quotation is 2.00 pm on 15/03/2020

Terms and conditions

- Self-declaration of conformity as per IS16242
- NABL certification of Inverter and Battery
- Shall provide brochures or catalogs of items along with quote
- Item should be supplied and installed at Energy Meter Calibration Lab at EMC
- Payment Terms: The 95% of total cost will be released against invoice after supply and installation of items and balance 5% will be released when guarantee period expires after deducting liabilities if any