



# University of Gauhati

## Department of Chemistry

Gopinath Bordoloi Nagar, Guwahati-781014

Assam::India

NIQ No: GU/Chem/DJKUGC-BSR/2014

Date: 23-08-2016

Sealed quotations from reputed manufacturers/dealers/suppliers are invited for supply, installations etc, of one online UPS in the Department of Chemistry, Gauhati University, Guwahati, Assam; under the UGC-BSR sponsored project no. F.30-122/2015 (BSR). The last date of submitting the quotations to the undersigned is 31<sup>st</sup> of August, 2016.

### Technical Specification of 3 KVA UPS (APC/NUMERIC) with 30 mins back Up in full load

Sr. No.	Features	Description	Compliance
1	Capacity (in kVA / kW)	3.0 kVA Single Phase Input / Single Phase Output	
2	Technology and Capability	a) True Online configuration with double conversion UPS with Micro Control Based b) UPS should be designed at Rated PF of 0.8 Minimum	
		i.e. 3 kVA / 2.4 kW UPS rating	
	(1Ph Input & 1Ph Output)	(Isolation transformer should be provided on the input side	
		of the UPS systems), Input Voltage range should be minimum 160-300 V AC	
3	<b>Input</b>		
3.1	Input facility -Phases / Wires	1-Phase / 2-Wire & Gnd (Phase & Neutral + Ground)	
3.2	Input Voltage Range	230V 160 - 300V AC (On 100% Load)	
		160 - 300V AC (On 100% Load)	
		110 -300 VAC (On 50% Load condition)	
3.3	Input Power Factor	0.99 on Full Load	
3.4	Input Current Harmonic	< 10%	

	Distortion (THDi)		
3.5	Generator Compatibility	Compatibility to genset supply required	
4	<b>Output</b>		
4.1	Nominal Output voltage	230 V	
4.2	Output Voltage Regulation	±1%	
4.3	Nominal Output Frequency	50Hz ± 0.1 Hz	
4.4	Output Frequency Regulation	47.5 to 52.5Hz	
4.5	Output Wave Form	Pure sine wave	
5.	Output Voltage Distortion (THDv)	<2% Linear Load	
		<5% Non Linear Load	
5.1	Crest Factor	,3:1	
5.2	<b>Efficiency</b>		
5.3	<b>AC/AC (overall efficiency)</b>	Up to 92%	
	(Double Conversion)		
5.4	Overload capacity		
	105 - 110%	3 min	
	111 - 130%	30 sec	
5.5	<b>Battery Backup</b>		
	Backup Required	30-Minutes On full load	
	Battery Bank Voltage	192-240V DC	
	Battery Bank Van	<b>6720 VAH for 1 Hr backup</b>	
	Batteries Type (VRLA)	Sealed Maintenance Free (SMF) - 12V Cells	
	Battery Makes	Amara Raja (Quanta make) / Panasonic / Exide powersafe	
6	<b>Communication</b>		
	RS232	Available	
	<b>Intelligent slot</b>	<b>Optional - SNMP</b>	
7	Operating temperature	0~40°C Continuous	
8	<b>Electrical</b>		
	Input terminal	Input Breaker + Terminal	
	Output terminal	Terminal	
9	<b>Features</b>		
	Converter mode	Available	
	Bypass parameters configurable	Available	
10	Display	LED + LCD Display	
11	<b>Mechanical</b>		
	Ingress protection	IP 20	
13	Warranty	2-years on UPS & Batteries	

**Terms and conditions for the Bidder for the installation & Supply of the UPS:**

- a) The bidder must enclose the relevant documents such as purchase orders.
- b) The bidder must be an ISO Certified Vendor.
- c) Technical literature / Brochure must be enclosed with the Offer.

Gauhati University reserves the right to modify/cancel the requirements.  
All terms and conditions will be as per Gauhati University rules, regulations and decisions.



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*forwarded  
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