



GAUHATI UNIVERSITY

Department of Instrumentation & USIC

Ref. No. Instr. & USIC/ SAIF/XRD/UPS/2016/65

Date : 10/08/2016

NOTICE INVITING QUOTATION

Sealed Quotations (should include applicable Taxes) are invited from reputed manufacturers / registered suppliers / dealers for the supply, installation, commissioning etc of a 10 KVA ON LINE UPS for Philips (now PANalytical) make X'Pert Pro Powder X-ray Diffractometer (XRD) of Sophisticated Analytical Instrument Facility (SAIF) Guwahati, sponsored by the Department of Science & Technology (DST), Govt. of India and located in Department of instrumentation & USIC, Gauhati University (GU). The quotation is to be submitted to the Head, Dept. of Instrumentation & USIC, Gauhati University within 30 days of publication of this Notice Inviting Quotation (NIQ) in the official website of GU. Specification of the UPS is in the annexed sheet.

(K. C. Sarma)

Professor & Head

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Specifications of the 10KVA ONLINE UPS

10 KVA ON LINE UPS based on latest technology with battery bank for 2 Hours backup in Full Load with following or better specifications.

- Capacity : 10KVA / 9KW
- Technology : DSP controlled True ONLINE high frequency PWM technology with IGBTs / Double conversion VFI technology or better latest technology.
- Harmonic distortion : <2% for linear load, <5% for non linear load.
- Noise Level : Less than 50 dB
- DC Bus voltage : 240VDC
- Input : Three Phase 415V, 50Hz AC with Neutral and Earth preferably adjustable to suit real life variation in input voltage and any Phase Sequence.
- Output : 220/230VAC, $50 \pm 0.1\%$ Hz
- Output waveform : Pure Sine wave
- Load power factor : 0.9 or better
- Overload Capacity : 125% for 10 mts.
- Protection : Short circuit Protection, Input over and under voltage protection
Output over and under voltage protection.
- Isolation : Automatic static bypass, MCBs at Input and Output, Galvanic isolation.
- Self test : Auto self test on LCD Panel.
- Indicators : Mains ON, Inverter ON/OFF, battery condition, load level, Temperature
- LCD Display : Input/output voltage and frequency, Load current, load level,
Battery voltage
- Communication : Communication interface for connecting with PC
- Alarm : Audible alarm for Mains failure, battery low, overload,
- Spares : Essential spares should be included.
- Battery : Sealed maintenance free batteries.
- Charger : Suitable battery recharge time e.g. 8 hours or better for recharging to 100% after complete discharge.
- Cold start : Cold start feature required.
- Warranty : Minimum Two years with options for 5 years.

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