

Department of Electrical Engineering

Enquiry No.: IITK/EE/UPS/HoD /2013-14/02

Opening Date: 11/09/2013

Closing Date: 21/09/2013

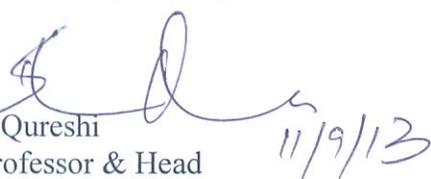
Sub.: Purchase of Online UPS

We are interested in the purchase of Online UPS for our Department. Please send sealed quotation, to undersigned, for the same.

S.No.	Product Description	QTY.
1(a)	Online UPS With Three years warranty Capacity:- 10KVA/8000Watts Specification given in Annexure-I	01
(b)	SMF Battery Bank three years warranty for 30 min backup of 10KVA/8000Watts UPS On full load, Please mention Battery nos. Make:- Excide/Amarraja/ Quanta	01
2(a)	Online UPS With Three years warranty Capacity:- 20KVA/16000Watts Specification given in Annexure-II	03
(b)	SMF Battery Bank three years warranty for 70 min backup of 20KVA/16000Watts UPS On full load, Please mention Battery nos. Make:- Excide/Amarraja/ Quanta	02
(c)	SMF Battery Bank three years warranty for 30 min backup of 20KVA/16000Watts UPS On full load, Please mention Battery nos. Make:- Excide/Amarraja/ Quanta	01

Terms & Conditions :

1. Your quotation shall contain Authorization Letter from manufacturer.
2. All quotations must reach undersigned on or before 21st September, 2013 at 1700 hrs.
3. Quotation must be valid for 60 days.
4. Delivery period should not be more than **4 weeks**.
5. Send complete detail of the product(s).
6. IITK is exempted from excise/custom duty.
7. All prices are to be FOR IIT Kanpur.
8. The Institute reserves the right of accepting and rejecting any quotations without assigning any reason thereof.


S. Qureshi
Professor & Head
Department of Electrical Engineering
IIT Kanpur
Kanpur, U.P. – 208016, India

Annexure I

Capacity; 10000VA / 8000Watt
UPS TOPOLOGY Rack / Tower convertible True double conversion online Technology using IGBT
ELECTRICAL CHARECTERISTICS
INPUT (Rectifier) IGBT Based
Nominal Input range 380V -477 V for three phase whereas 160VAC -280 VAC for single phase on full load.
The same should be compatible to run both on 3phase input and Single Phase Input both as & when require.
Input Voltage Variation at Full Load 160VAC -280 VAC , at 50% load where as 100V-280VAC per phase.
Input frequency Range 48-52 Hz
Input current Harmonic (THDi) <5%on available campus voltage quality
P.F . at full load >0.99
OUTPUT (Inverter) IGBT Based (Guaranteed Continuous rated output power at rated output Voltage)
Voltage 200/208/ 220 /240VAC , Programmable,+ / -2% (single Phase)
Output wave form pure sine wave
Voltage regulation +/-2%
Voltage Harmonic Distortion (Rated Input Voltage , rated Input frequency)<2% (Linear Load) <5% non Linear Load
Crest factor: 3: 1
Automatic & manual both bypass is required.
Inverter Over Load Capacity 105% Conitnious,125% for 5minutes, >150% for 30sec
Power Factor 0.8
Frequency 50 Hz +/-0.05Hz
Overall Efficiency.>92%
Battery
Types of battery supported Sealed maintenance free lead acid
Charger constant voltage , constant current
Minimum VAH Required 6912VAH
General :- Operating temperature 0deg centigrade to 50 degree centigrade, Alarm Indications, Mains On, Inverter On / Off/ Faulty indication Battery Level Static Bypass ON Load Level Over Temperature Audible Alarm, Mains Failure, Low Battery, Over Load,
COMMUNICATION
UPS should have inbuilt RS-232 port to connect with a PC directly.
UPS should have inbuilt WEB SNMP card for remote monitoring & management.
The software for monitoring should be provided free of cost.
WARRANTY :- Min.3 Years
UPS SHOULD BE WARRANTED FOR MINIMUM 24MONTHS REPLACEMENT warranty from the date of delivery where as the batteries should
There need to submit the regular printed brochure as proof of technical specification. Anything not available on brochure would be treated as not available in product.
BSMI , C-TICK, CE, EN50091-1, EN50091-2, VDE ,EN55022 CLASS A, EN60950, EN61000-2-3, GOST, JEON, PCBC, UL1778, VCCI, CSA

Annexure II

Capacity; 20000VA / 16000Watt
UPS TOPOLOGY Rack / Tower convertible True double conversion online Technology using IGBT
ELECTRICAL CHARECTERISTICS
INPUT (Rectifier) IGBT Based
Nominal Input range 380V -477 V for three phase whereas 160VAC -280 VAC for single phase on full load.
The same should be compatible to run both on 3phase input and Single Phase Input both as & when require.
Input Voltage Variation at Full Load 160VAC -280 VAC , at 50% load where as 100V-280VAC per phase.
Input frequency Range 48-52 Hz
Input current Harmonic (THDi) <5% on available campus voltage quality
P.F . at full load >0.99
OUTPUT (Inverter) IGBT Based (Guaranteed Continuous rated output power at rated output Voltage)
Voltage 200/208/ 220 /240VAC , Programmable,+ / -2% (single Phase) or 380/400/415 +/-2 % for 3 Phase. Note:- It should have facility to switch the output on single Phase or Phase or three Phase per the requirement
Output wave form pure sine wave
Voltage regulation +/-2%
Voltage Harmonic Distortion (Rated Input Voltage , rated Input frequency)<2% (Linear Load) <5% non Linear Load
Crest factor: 3:1
Automatic & manual both bypass is required.
Inverter Over Load Capacity 105% Conitnious,125% for 5minutes, >150% for 30sec
Power Factor 0.8
Frequency 50 Hz +/-0.05Hz
Overall Efficiency.>92%
Battery
Types of battery supported Sealed maintenance free lead acid
Charger constant voltage , constant current
Minimum VAH Required 18667 VAH
General :- Operating temperature 0deg centigrade to 50 degree centigrade, Alarm Indications, Mains On, Inverter On / Off/ Faulty indication Battery Level Static Bypass ON Load Level Over Temperature Audible Alarm, Mains Failure, Low Battery, Over Load,
COMMUNICATION
UPS should have inbuilt RS-232 port to connect with a PC directly.
UPS should have inbuilt WEB SNMP card for remote monitoring & management.
The software for monitoring should be provided free of cost.
WARRANTY :- Min.3 Years
UPS SHOULD BE WARRANTED FOR MINIMUM 24MONTHS REPLACEMENT warranty from the date of delivery where as the batteries should
There need to submit the regular printed brochure as proof of technical specification. Anything not available on brochure would be treated as not available in product.
BSMI , C-TICK, CE, EN50091-1, EN50091-2, VDE ,EN55022 CLASS A, EN60950, EN61000-2-3, GOST, JEON, PCBC, UL1778, VCCI, CSA