International Shopping

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Tender for Equipment – NITT : 16/2006/TEQIP   **Date : 4-10-2006**

TEEEIS02- MODULAR UPS SYSTEM

Capacity	20KVA
Topology	Modular , True online Battery, Double Conversion
INPUT: Voltage Range	380/400/415V AC,+20% -27%, 3phase
Frequency	47-53 Hz
Input Power Factor	0.99
OUTPUT: Power Walk-in	>60 sec
Load CREST FACTOR	6:1
Output Voltage	230V; 50 HZ , 1- phase 415V ; 50 Hz, 3- phase
Static Regulation	+/-1 %
Regulation for Unbalance d Load	+/-1 % for 100% unbalanced load
Frequency Tracking Range	+/-1 Hz
Over load	110% for 10 mins.,125% for 60 secs, 1000% for 1 cycle
Load Power factor	0.8
Wave form	Sine Wave
Total Harmonic Distortion [THD]	Less than 2% [Linear Load]
Protection	Over load, Short circuit, Battery low voltage, over temperature, Output Over/low Voltage
Transient response on 100% Load Change	+/-2%
GENERAL	
Ambient Temperature Operating Storage	 -10 to 40ºC -25 to 70ºC
Relative Humidity	95% max non condensation
Acoustic Noise [full load] @ 1.5m distance	47dBA
MTBF COMMUNICATION	>250,000 hrs.
RS232	Yes
Alarm shutdown monitor	Yes
STANDARDS	
EMC Emission	EN50091-2 Class A; IEC 62040-2
EMC Immunity	EN 50082-2
Safety	E50091-1; IEC62040-1-1
Design	E50091-3; IEC 62040-3
Low Magnetic Field Radiation	EMF as per ICNIRP

DISPLAY: Input and Output	Current, Voltage and frequency

Battery:

Please quote for the following two options.

Option 1: For half an hour backup   --- 20 AH SMF Type Battery   - 64 Nos.
Option 2: For one hour backup   --- 42 AH SMF Type Battery   - 64 Nos.

The battery should be of renowned make such as Exide, Amco and Amarraja.

Note: The special features of UPS

1. Scalable up to 100 KVA

2. PRS- Parallel Redundant Operation

3. n+1, n+2 redundancy possible

4. Wing communication for wireless connectivity including mobile phone

5. Common battery bank for all the systems

6. Configurable as 1/1, 3/1, 3/3 in the input and output phases

7. Input THD < 5%

8. Crest Factor 6:1