**GENERAL INSTRUCTIONS**

(1) Sealed tenders are invited for the procurement of laboratory items of HBTI Kanpur. The tender documents can be bought from the Store Purchase Section, Harcourt Butler Technological Institute Kanpur. Interested tenderers may download the same from the website and submit their offer along with **Tender fee of `1000/- each** (In form of Crossed Demand Draft issued by any Nationalized Bank in favour of Director H.B.T.I., Kanpur). While submitting your offer mark Tender No. and due date on the envelope.

(2) Quotations received without Tender fee will not be considered.

(3) No request for the extension of the due Tender date will be considered.

(4) Each Tender consisted of various schedules and EMD for each schedule is mentioned separately. Tenderers may submit their proposals for **one or more schedules** along with the respective EMD (In form of Crossed Demand Draft issued by any Nationalized Bank in favour of Director H.B.T.I., Kanpur).

(5) The offer submitted for each schedule should be complete in all respect and price quoted for each schedule should be **FOR destination HBTI Kanpur**.

(6) Late/delayed offers will not be accepted.

(7) Tenders received before the deadline shall be opened in the presence of attending Tenderers/their authorized representatives on the same day at scheduled time and venue.

(8) Corrigendum, if issued any for the Tender, shall form part of the Tender document. Corrigendum will be posted only on HBTI Kanpur website (www.hbti.ac.in). Tenderes are requested to visit HBTI Kanpur website regularly and note the corrigendum/amendments to the tender without fail and submit the offer accordingly.

(9) All other terms and conditions are as per the Institute rule.

(9) The Director reserves the right to cancel any or all Tenders without assigning any reason.

**For HBTI Kanpur**

**Tender No.: 11/SPS/CSE/2016 Dated: 14.03.2016 due on 04.04.2016 by 01:30 pm**

**Schedule No. 1 EMD: 1,75,000/-**

**Technical Specification for Desktop Computer (160 Nos.)**

Make: HP, DELL, LENOVO

Processor: Intel Core i7 (Fourth Generation), Chipset Q87

RAM: 4 GB DDR3 (Expandable to 16 GB)

HDD: 1 TB SATA RPM: 7200

Optical Disk Drive: Yes,

Display Size: 18.5 inches LED TFT

Platform: Windows 10 Pro (OEM) Academic Purpose only

Graphics:  Intel Integrated Graphics

Input Devices: Mouse, Keyboard

Ethernet: Integrated, 1GBPS (Gigabit Port) 10/100/1000

Warranty: 3 Years In house

Certification: Approved in India

Wi-Fi Enabled

Cabinet: Small Form Factor

Applications: NOD 32 Antivirus (3 Years validity)

Commercial Machine with Standard Certification

Optional: Buyback old computer systems

**Schedule No. 2 EMD: 8000/-**

Software(s) with specification

1. 3 Nos. Box Microsoft MSDNAA Dreamspark (for 180 computers) for 3 years.
2. Oracle 10g (Academic Version) CPU based License.

**Schedule No. 3 EMD: 7000/-**

# Technical Specification for 10 KVA On-Line UPS System With

#  SMF Batteries For 1 hrs Back-up Time

**Total requirement four (04) Numbers**

**MAKE : STREAMLINE/KIRLOSKAR/TRIPPLITE/LDS**

|  |  |  |
| --- | --- | --- |
| **SL.No.** | **PARAMETERS** | **SPECIFICATIONS** |
|  | **TOPOLOGY** | ON LINE DOUBLE CONVERSION TYPE UPS SYSTEMS BASED ON HIGH FREQUENCY PWM IGBT TECHNOLOGY**.**  |
|  |  **INPUT**  |  |
| * VOLTAGE RANGE
 | 165 - 260 V |
| * FREQUENCY
 | 47 – 53 Hz |
|  | * CHARGING CURRENT
 | 2A , 4A , 8A , 10A , 13A , 16A , 20A SELECTABLE |
|  | * EFFICIENCY
 | GREATER THAN 90% |
|  | * OPERATION
 | FLOAT CUM BOOST TYPE 2.25V TO 2.42V PER CELL |
|  | **DC INPUT**  | 180 VOLTS |
|  | **OUTPUT** * METHOD OF OPERATION
 | REAL TIME WAVEFORM CONTROLLED WITH DSP LOGIC USING VLSI/VHDL/CPLD/FPGA CIRCUITS. |
| * VOLTAGE
 | 230 / 220 / 210 V AC |
| * REGULATION
 | +/- 1% under all line and load conditions. |
| * FREQENCY
 | 50 Hz +/– 0.5% |
| * WAVE FORM
 | SINUSOIDAL |
| * DISTORTION
 | MAX. THD < 2% FOR 100% LINEAR LOAD. |
| * POWER FACTOR
 | 0.8 TO UNITY |
| * OVERLOAD
 | 120% FOR 10 MINS , 150% FOR 5 MINS |
| * TRANSIENT RESPONSE
 | +/-5 % OF NOMINAL OUTPUT VOLTAGE FOR STEP LOAD CHANGE FROM 10% |
| * TRANSIENT RECOVERY
 | WITHIN 1 CYCLE TO REGULATION BAND |
| * CREST FACTOR
 | 2.2:1 |
| * AUDIBABLE NOISE
 | LESS THAN 55 DB |
|  | **INDICATIONS** | * MAINS ON
* MAINS FAIL
* BATTERY CHARGING
* BATTERY CHARGED
* RECTIFIER TRIP
* INPUT OVER VOLTAGE
* INPUTUNDER VOLTAGE
* INVERTER ON
* BATTERY LOW
* OUTPUT OVER VOLTAGE
* OUTPUT UNDER VOLTAGE
* OUTPUT OVER LOAD
 |
|  | **ALARM** | THE SYSTEM WILL SET AN ALARM ON ABOVE INDICATIONS. |
|  | **PROTECTIONS** | * INPUT OVERVOLTAGE
* INPUT UNDER VOLTAGE
* DC OVER VOLTAGE
* INPUT OVER CURRENT
* BATTERY OVER CHARGING
* BATTERY LOW OUTPUT
* OVER VOLTAGE
* SHORT CIRCUIT
* DC MCCB
 |
|  | **OUTPUT WAVEFORM** | Output wave form distortion less than 1.5% on 100% on non-linear load (i.e. Rectifier load and current 80 Amps RMS on peak current 200 Amps maximum) |
|  | **OUTPUT ISOLATION** | The output is isolated through galvanic isolation transformer of rated capacity not less than 100 Amps.  |