|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Page no.** | **Clause (ATC)** | **Technical Specifications** | **Queries** | **Clarifications** |
| 1 | 26 | 1.5 ENVIRONMENTAL CONDITIONS : | It shall be possible to true ‘hot -swap’ each UPS module to enable the safe removal, or insertion, of a UPS module without risk or disruption to the critical load and without the need to transfer the critical load directly to mains or generator supply.  | Please confirm if a modular UPS or a normal standalone UPS is required. If a modular UPS is needed, please confirm the rack size of the UPS. | As per clause 1.1 of Technical specifications, modular, continuously rated, solid state, Uninterruptible Power Supply (UPS) system shall be provided. Rack size shall be decided by the supplier such that UPS system can be accommodated in the UPS room indicated in tender document. |
| 2 | 26 | 1.5 ENVIRONMENTAL CONDITIONS : | For single UPS modules the battery system shall consist of a minimum of 2 parallel strings of multiple cells.  Each individual parallel string shall have its own dedicated means of electrical protection | Please confirm if each UPS requires two battery banks for a 30-minute backup. Each individual battery bank provides a 15-minute backup. | As per BPS, each UPS of 60kVA, battery backup shall be of minimum 30 minutes. Accordingly, it is clarified each battery bank shall provide 30 mins backup.  |
| 3 | 26 | 1.5 ENVIRONMENTAL CONDITIONS : | The UPS battery charging circuit shall comprise of a separate battery charger and not depend on a charge voltage being derived from the UPS input rectifier. Consequently the battery charging voltage shall have zero a.c. (ripple) content.  | Please confirm can we provide inbuilt battery charger. | Technical specification is amply clear. Bidder to follow the requirements of technical specifications. |
| 4 | 21 | 1.3 SYSTEM DESCRIPTION :1.3.1 General : | ……UPS modules connected in parallel for operation as required and as per BOQ. The UPS modules shall be located within a fully enclosed, free standing, system cabinet which shall contain automatic parallel connection terminals, communication cables, individual module isolators, input/output power terminals and an integral wrap around maintenance bypass switch. | Please confirm if the UPS is in parallel redundant configuration or standalone mode. There is confusion between the BOQ and the technical specifications. | UPS is in parallel redundant configuration. |
| 5 | 69 | BOQ for procurement, installation and AMC of UPS for CTUIL office space at IRCON International Tower, Sec 32, Gurugram. | Supplying,installation,testing and commissioning of online double conversion fully microprocessor based ,indoor type, compact UPS system with IGBT based PWM technology suitable for AC input voltage 380V to 450V, 50Hz+3%/-3% and AC output voltage 415±1% volts & frequency 50 ± 0.5 Hz , necessary VRLA batteries of suitable size having 30 minutes backup time and suitable size connecting cable (for UPS to Battery and battery to battery), static and maintenance bypass switch, SNMP card for RS232/ ethernet IP compatability for operation and monitoring etc. with all components as mentioned in BOQ, specifications and schedule, complete in all aspects etc. as required |  |
| 6 | 30 | 1.2.3 Display and Controls :A General : | In addition to a visual fault signal (alarm), the UPS shall also record fault occurrences in a rolling event log.  The event log shall record up to 64 occurrences, with the oldest events discarded first, etc.  The user shall have access to the event log through the LCD display. Every alarm and/or event recorded in the event log will contain a time and date stamp.  | Please confirm if we can provide log events through SNMP. | Technical specification is amply clear. Bidder to follow the requirements of technical specifications. |
| 7 | 35 | D RECTIFIER SECTION | 3 Phase and Neutral (at full load), In case the voltage range is not within the specified range the cost of servo stabilizer should be added. | Please confirm if a servo stabilizer is required. If it is, please specify the input range of the servo stabilizer. | Servo stabilizer is not envisaged. |
| 8 | 38 | G Battery | 5 Backup time  : 30 minutes 6 Charging Voltage    : 2.23-2.25 VPC                                   (Selectable)7 Depth of Discharge to be considered 30% for 15min. Back-up and 30 Min. Back-up UPS (It should discharge  up to 70% of state of discharge) 8 Depth of Discharge to be considered 80% for 90min. Back-up UPS (It should discharge  up to 20% of state of discharge) | Please provide the VAH for battery sizing to avoid confusion. | Necessary VRLA batteries of suitable size having 30 minutes backup time shall be provided. Battery sizing to provide 30 mins backup is in the scope of contractor. |
| 9 | 39 | ENVIRONMENTAL CONDITIONS : | To permit access through a standard single doorway opening, either the width or the depth of the UPS system and battery cabinets shall not exceed 800 mm.  | Our UPS depth is 850mm. Please request approval. | Acceptable. |