

## Tender No - : CDACP/NSM-DC-IUAC/22-23/353

| Sr. No   | Reference   | Tender Description  | Corrigendum   |
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| <b>A</b> |   | <b>Tender Schedule</b>  |   |
| <b>1</b> | Last date of submission of bids                             | 29th November, 2022 – 1500 hrs.   | Dec 15, 2022 – 1500 hrs.  |
| <b>2</b> | Date of opening of Technical bids                           | 30th November, 2022 – 1500 hrs.   | Dec 16, 2022 – 1600 hrs.  |
| <b>B</b> |   | <b>INSTRUCTIONS TO BIDDERS</b>  |   |
| <b>1</b> | <b>Section II- Page 8, Eligibility Criteria 3.4</b>         | Bidder Should have minimum total 2 nos. of qualified and certified CDCP professions + minimum 1 nos. CDAP+CDCS professional with minimum one years' post certification experience in Data Centre designing and implementation. All 4 employees should be employed with the bidder for a minimum of 4 months as on 30th Oct 2022. PF challans of the same need to be submitted. Bidder should submit certificate issued by authorized signatory or Head of Human resources of the bidder, on bidder's letter head and copies of valid PF challan in the name of said employee in support of this condition | Bidder Should have minimum total <b>2 nos. of qualified and certified CDCP professions + minimum 1 nos. CDCS</b> professional with minimum one years' post certification experience in Data Centre designing and implementation. All <b>3</b> employees should be employed with the bidder for a minimum of 4 months as on 30th Oct 2022. PF challans of the same need to be submitted. Bidder should submit certificate issued by authorized signatory or Head of Human resources of the bidder, on bidder's letter head and copies of valid PF challan in the name of said employee in support of this condition.<br>Or<br><b>Bidder Should have minimum total 4 nos. of CDCP professions. All 4 employees should be employed with the bidder for a minimum of 4 months as on 30th Oct 2022. PF challans of the same need to be submitted. Bidder should submit certificate issued by authorized signatory or Head of Human resources of the bidder, on bidder's letter head and copies of valid PF challan in the name of said employee, in support of this condition.</b> |
| <b>2</b> | <b>Section III- Page 15, Project Timeline Clause no. 19</b> | All the items covered in the Schedule of Requirements ( <b>Section – IV</b> ) must be supplied, installed and commissioned within 5 months (twenty weeks) from the date of award of Contract / placement of order.  | All the items covered in the Schedule of Requirements ( <b>Section – IV</b> ) must be supplied, installed and commissioned within <b>6 months</b> (twenty four weeks) from the date of award of Contract / placement of order.  |
| <b>C</b> |   | <b>Technical Specifications / Features</b>  |   |

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| <p>1</p> | <p><b>Section IV,<br/>Page No 30<br/>,New Clause<br/>No 7.2.2</b></p> | <p>Each UPS Frame shall be sized for kW =kVA @40 Deg C . load i.e. Unity Output power Factor with no derating at 40 Deg C. Design of UPS should be Insulated gate bipolar transistor (IGBT) rectifier and 3 level IGBT inverter switching with double conversion as per IEC 62040-3 operating modes. Inverter Switching Frequency shall be ≥18 kHz to keep the noise minimum. Inverter shall be PWM controlled using DSP logic. Analog control shall not be acceptable. Each UPS shall be of modular architecture with Power Unit &amp; removable sub power modules rating from 25 kW to 50 kW achieve highest system protection. Failure of any sub power module in individual UPS Frame shall not lead to entire Frame Capacity down but only the failed sub power module capacity shall go down. i.e. In case of Failure of any one Sub Power module, rest of the available power module in the frame shall continue to operate in normal double conversion mode of operation with reduced capacity. This shall also be applicable to all UPS's operating in parallel configuration. The UPS shall be housed in a freestanding cabinet with casters and shall contain Static Bypass and maintenance Bypass isolator. Each UPS should have phase sequence detection. Steady state voltage regulations will be within 1% of nominal output voltage, linear load harmonics distortion should be less than 3% and non-linear load harmonics distortion should be less than 5%. UPS should be capable of 100% unbalanced load. Efficiency of UPS should be minimum 95% from 25% to 75% in double conversion mode. Noise generated by UPS under normal steady state condition should not be more than 70 DB as per ISO 7779. UPS should be ROHS / Energy Star complied product. Cable termination will be from bottom. All serviceable components to be from front. , Rear space upto 200mm can be provided only for ventilation purpose UPS display should show the battery status monitoring, UPS mode, Alarm (Audio and visible), Events etc. The UPS communication capability should be able to integrate into any industry standard Building Management System (BMS). Adequate protections for UPS, Setting up of Data Centre at IUAC New Delhi. Page 31 of 104 for rectifier, bypass, battery, battery against overload, short circuit, battery over charging, battery over discharging, transients, surges (as per IEEE 587) etc. needs to be considered as per IEC 62040-1. Built in SNMP card, MODBUS TCP IP, Dry contacts card to be standard feature in UPS. Should comply with UL 1973/ CE/IEC 62619 /UN 38.3 for LITHIUM ION BATTERIES.</p> | <p>Each UPS Frame shall be sized for kW =kVA @40 Deg C . load i.e. Unity Output power Factor with no derating at 40 Deg C. Design of UPS should be Insulated gate bipolar transistor (IGBT) rectifier and 3 level IGBT inverter switching with double conversion as per IEC 62040-3 operating modes. Inverter Switching Frequency shall be ≥18 kHz to keep the noise minimum. Inverter shall be PWM controlled using DSP logic. Analog control shall not be acceptable. Each UPS shall be of modular architecture with Power Unit &amp; removable sub power modules rating from <b>25 kW to 60 kW</b> achieve highest system protection. Failure of any sub power module in individual UPS Frame shall not lead to entire Frame Capacity down but only the failed sub power module capacity shall go down. i.e. In case of Failure of any one Sub Power module, rest of the available power module in the frame shall continue to operate in normal double conversion mode of operation with reduced capacity. This shall also be applicable to all UPS's operating in parallel configuration. The UPS shall be housed in a freestanding cabinet with casters and shall contain Static Bypass and maintenance Bypass isolator. Each UPS should have phase sequence detection. Steady state voltage regulations will be within 1% of nominal output voltage, linear load harmonics distortion should be less than 3% and non-linear load harmonics distortion should be less than 5%. UPS should be capable of 100% unbalanced load. Efficiency of UPS should be minimum 95% from 25% to 75% in double conversion mode. 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Should comply with UL 1973/ CE/IEC 62619 /UN 38.3 for LITHIUM ION BATTERIES. <b>UPS should be with KW=KVA.UPS should have feature of live swappable module.</b></p> |
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