

Further Clarifications and Updates for the Information of All Bidders

Tender Reference No. NITRR/CCC/HEFAPROJ/DC/2020/150 dated 11/06/2020

Project Name: Design, Supply, Installation. Testing, Commissioning and Maintenance of Data Center Physical Infrastructure

Racks: Minimum Dimensions - Server: 42U, 600mm x 1000mm, Network - 42U, 800mm x 1000mm. Power: 10 kW in N+N for server racks, 7 kW in N+N for network racks. Rear doors can be lockable solid or perforated.

Redundancy: Component level redundancies are acceptable if repair and swap of key components is possible without shutting down the system and reducing minimum required capacity. Sensible evaporative is same as indirect evaporative using water.

Voltage Stabilizers: The 2x250 kVA voltage stabilizers are no longer applicable. Stabilizers are required for all non-ICT loads in the data center only. Bidders may propose suitable number and rating based on their equipment and Tier-III. Specs are mentioned in below table:

S. No.	General Technical Specifications of Voltage Stabilizer
1.	Capacity & Technology: 3ph – Air / Oil Cooled; Servo / Solid State
2.	Input Voltage: 360v – 460v 3ph, Output Voltage: 380v / 400v / 415v 3ph
3.	Output Voltage Regulation: + 1% ; Speed Of Correction: 35v/Sec
4.	Operating Frequency: 47 Hz – 53 Hz
5.	Operating Temperature: 0° C - 45° C Ambient
6.	Protections: Low Voltage, High Voltage, Short Circuit, Over Load, Single Phase
7.	Indications & Panel Control: I/p – On, O/p – On, I/O, Auto/Manual Up/Down Voltage

Development Phases: In this phase, 16 server and 4 network racks are being deployed. Internal area should be left to accommodate 16 server racks and support infrastructure in future. This area shall be partitioned so dust and water do not affect active area during future development. The area for future expansion shall be provided only with basic floor, lighting, air circulation and / or ventilation and furnished in future phase depending on solution requirements of that time.

Make and Model: In this turnkey project, bidder can specify multiple options under make and model against an item. This is to avoid deadlock in case a manufacturer discontinues a make or model or is unable to supply for some other reason – factory issues, merger and acquisition, Covid-19 issues, etc. However, the technical specifications of all proposed models shall meet the specifications, and datasheets of all major items should be submitted accordingly. Bidder can supply any one of the mentioned make and models.

Manufacturer's Authorization: Bidders can submit an undertaking from the manufacturers of major items on their letterheads at the time of supply in place of the manufacturer's authorization which had to be submitted with the bids.

Major Items: The technical literature including datasheets of all major items should be submitted with the technical bid. Major items include Racks, Cooling, UPS, Gensets, CIMP and DCIM.

Proof of Concept Demonstration: Technically qualified bidders can be called for a PoC demo using working models, e.g., environment monitoring, free cooling mechanism, etc. Bidders should be prepared for the same.

Warranty: All equipment supplied shall carry a comprehensive 12-months on-site repair or replacement warranty from the date of installation or 15-months after supply. Earlier Form no. 5, (for Warranty) is no longer applicable.

Charges to consider: Bidders should consider one-time testing and commissioning charges and site maintenance charges for arranging spares, tools and technicians etc. locally in Raipur for a period of one year. The requirement of one resident technician for three years is no longer applicable.

Electricity and Water: For the project, electricity connection will be provided by the institute at applicable charges. Water will be billed at 1% of the project cost. However, bidder is free to source his own electricity and / or water.

Electricity and Water for Operation and Testing: Institute will route electric power to the data center LT panels and a water connection for continuous operation of DC equipment. For testing, handover, and project sign-off, bidder can use the two gensets and own water.

Emergency Lights: All indoor partitions and outdoor shall have suitable numbers of lights on UPS. Emergency Light DB to be considered.

Forms: Forms are mere sample templates only. They may be suitably modified to incorporate applicable terms and conditions of this online tender, or the requirements of standardized bank formats, etc.

There is no other update.