

FINAL CLARIFICATIONS

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

Following points of the table mentioned on page no. 11 of the tender should be read as follows:

Point no. 1: Bidder can submit manufacturer's authorization letters with the bid or manufacturer's undertaking at the time of supply for all major items. Bidders can mention multiple compliant makes and models against an item and can supply any one of them with the undertaking or authorization.

Point no. 4: Trade license is no longer applicable.

Point no. 13: Bidders shall refer technical compliance tables and submit the deviation form and technical datasheets of the proposed makes and models against an item for all major items. All items supplied shall meet technical specifications and descriptions.

Common points for information of all bidders:

1. Only the revised schedule of requirements published in the sixteen page update is to be considered.
2. S. No. 52 on page 14 of the update may be read as "Suitable numbers of servo controlled voltage stabilizer(s) of appropriate rating for non-IT loads"
3. S. No. 53 on page 14 of the update must be read as "Evaporative cooling unit or sub-unit – SITC"
4. S. No. 54 on page 14 of the update must be read as "Compressor based cooling unit or sub-unit – SITC"
5. S. No. 55 on page 14 of the update must be read as "Free cooling unit or sub-unit – SITC"
6. Following items shall be included in the schedule of requirements:
 - (a) "Data center design charges". The comprehensive data center design document shall be the deliverable.
 - (b) "Data center testing charges". The comprehensive data center test report shall be the deliverable.
 - (c) "Data center commissioning charges". This includes charges for commissioning consumables and disposables for the entire project. The successful running of the fully functional data center facility for a period of 10 days shall be the deliverable.
 - (d) "Machine and manpower mobilization charges". The successful completion of different works and installation and operation of different machines, equipment and accessories at the site shall be the deliverable.
 - (e) "Supply of critical spares and tools for maintaining operational continuity at the site for one year". List should be submitted. It replaces "site maintenance charges for arranging spares, tools and technicians etc. locally in Raipur for a period of one year" mentioned in the one page update.
7. S. No. 86 on page 15 of update "One Resident technician charge for three years" is no longer applicable.
8. S. No. 91 on page 15 of update should be read as "Any other essential item bidder may like to include for completion of works which may not have been explicitly mentioned"
9. P kW in N+N means P kW distributed in N+N, i.e., $N = (P/2)$ kW where N is the design load.
10. The extent of false ceiling, false flooring, heavy duty tiling etc. in the proposed spaces shall depend on solution requirements and for serving some useful function.
11. 9mm neoprene or equivalent insulation shall be considered for server, network area ceilings, if false ceiling is not considered for these rooms.
12. The nature and extent of water softening to be considered shall depend on the solution requirements and water hardness.
13. Rack front door access can be lock and key based if cameras are located to capture identity and time of access.
14. In Racks, "Powder coated finish with seven tank pre-treatment process meeting all industry standard" may be read as "Powder coated finish with seven tank pre-treatment process or epoxy finish meeting all industry standards"

15. Electronic access control is required for entry into all the important rooms and spaces in the data center where equipment critical to the operations of the data center is located.
16. On page no. 4 of the update, under Cooling System, the statement "Cooling should be based on sensible evaporative, direct exchange and free cooling units or sub-units working together and controlled through the common data center cooling controller" should be read as follows: "Cooling system shall comprise of evaporative, compressor based, and free cooling units or sub-units working together and controlled through the common data center cooling controller".
17. Evaporative cooling units or sub-units can be indirect or direct or both and shall be water based.
18. The cooling controller shall be common for all units or sub-units and optimize cooling and energy efficiency based on environmental parameters.
19. The cooling controller shall analyze the current and the available historical data to autonomously change the machine parameters for best performance.
20. Both the hot and the cold aisles should be contained.
21. Cooling units should be accessible without entering the rack areas.
22. Rack power and primary cooling shall be designed for Tier-III.
23. The isolation transformer of the UPS can be in-built or external.
24. Points no. 48: (i), (iii), (iv), (vi) on pages 1-2 of sixteen page update to be read as 48: (i), (ii), (iii), (iv)
25. All equipment and their ratings are to be considered for current load only.
26. If the bidder's proposal has deficiencies or reflects poor understanding of requirements or is non-optimal, in any respect, it shall be rejected.
27. Bidders can be called for a proof of concept demonstration and also asked to send additional documents in support of their claims during evaluation.
28. The tender comprises of the original tender document to be read along with all subsequent notices, updates, clarifications, etc. which were taken out later.

All other terms and conditions of the tender remain unchanged.