



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai 400076.**

PR No. 1000028839

RFx. 6100001243

Third Party data Center- Specifications

**(Indian Institute of Technology Bombay
Institute of Eminence, Data and Information Science)**

S.No	Specifications/details
	Initially renting at the specified total rate for three months and five servers. IIT Bombay reserves the right to extend the period for subsequent quaters as required and bidder has to extend at the same cost.
I.]	Bidder Eligibility Criteria
	<p>a.) The distance for shifting and refitting of equipment from IIT Bombay Electrical Engineering Department (Annex) to the location should not more than 5 kms by road,so that iit researchers can access the machines at extremely short notice.</p> <p>b.) The computing equipment will need 10 contiguous 42U racks for future growth with a total power budget of 65KW. Currently only 5 servers with an overall IT load of 34kW will be shifted.</p> <p>c.) The supplier also has to re-cable and bring up the IT equipment running on Ubuntu OS and ensure connectivity to the IIT campus over a dedicated secure network communication of at least 100 Mbps.</p> <p>d.) Solution Design aligned to Uptime Tier III Standard and Guidelines</p>
II.]	Racks Specification:
	<ol style="list-style-type: none">1. Size: 600mm X 1200mm2. Height: 42U3. Lock and Key4. Perforated5. Power capacity/rack: 7.3KVA (1 phase,32Amp, 230Volts)6. Dual redundant PDUs

	<p>7. Minimum number of power sockets per rack PDU are as below:</p> <ul style="list-style-type: none"> ◦ C13-14 = 19 numbers ◦ C19-20 = 06 numbers ◦ Indian 3 PIN Universal socket = 01number <p>8. Equipped with cold Aisle containment for better cooling efficiency</p>
III.]	Cooling:
	<p>a.) N+2 (N working, 2 standby) redundancy with dual circuits at machine level</p> <p>b.) To have redundancy at fluid levels as well. i.e., in case chillers require shutdown, load will be automatically shifted to gas-based circuits and vice-versa.</p> <p>c.) Two dedicated chillers along with gas-based circuits for cooling redundancy</p>
IV.]	Power:
	<p>a.) N+N Redundancy right from main incomer till IT equipment level i.e. N+N UPS,N+N PDUs, N+N UPS panels etc..</p> <p>b.) Separate dedicated UPS for BMS and emergency load in N+N redundancy with 15 minutes battery backup per UPS on full load.</p> <p>c.) Dedicated Diesel Generators each of 1250KVA</p>
V.]	Meet Me room:
	Two MUX rooms at two different ends of building with redundant cable path with dedicated basket type of cable tray.
VI.]	ELV Systems:
	<ol style="list-style-type: none"> 1.Fire Alarm System. 2.Access Control System 3.Server Room Entry-Exit with Biometric and other critical Rooms with Card entry-exit. 4.Highly Sensitive Smoke Detection System (VESDA) for Server Room and Mux Room. 5.NOVEC1230 based Gas Suppression System for Server Room, Mux Room, UPS/Panel Room, staging room and Battery Room. 6.Motion based and night vision CCTV Surveillance System covering all DC Areas including ODU locations. Recording is for minimum of 90 days. 7.Water leak Detection System for Server Room, MUX room and utility areas. 8.Rodent Repellent System for all DC Area.
VII.]	Agreement
	Successful bidder will have to sign a TRIPARTITE AGREEMENT Between IIT Bombay, Supplier of the equipment and the hosting service provider.

Additional Terms and Conditions

1. All the vendors are requested to participate as per the tender document and provisions of public procurement (preference to Make-in-India), order no. P-45021/2/2017 -PP (BE-II) as amended on 16th september 2020. **Also, if any make, brand or model is mentioned in the technical specification of any bid, that mention should be considered as a reference to understand the technical specification, and is not a violation of public procurement (preference to Make-in-India) order no. P-45021/2/2017 -PP (BE-II) & GFR 2017.**
2. Secondly, if there are any benchmarks mentioned in the tender document, such benchmarks would be standard, well-known and public. These benchmarks are intended to establish technical specifications conformity and performance guarantee as required for research.
3. Bidders are requested to ask queries only related to technical specifications and unavailability of the materials (if any) as per the tender document.