



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

(PR No. 1000040154)

(Rfx No. 6100001785)

**Technical Specifications for Housing service term renewal for loE-DIS
equipment [DGX and CPU servers] - One Year**

Sr. No	Specification	Compliance (Yes/No)	Additional Information if any
1.	<p>Service term renewal for upto one year from the date of expiry of the existing term of [Rfx No. 6100001243] for [5 racks] into third-party data center with upfront charges to be paid in the first quarter, and the rental payment for the same will be released on the quarterly basis. IIT Bombay reserves the right to extend the period for subsequent quarters/years as required and bidder has to extend the same.</p> <p>1. Bidder Eligibility Criteria:</p> <p>a) The distance for shifting and refitting of equipment from IIT Bombay to the location should not more than 3.5 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.</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.</p> <p>d) Solution Design aligned to Uptime Tier III Standard and Guidelines</p>		
2.	<p>Racks Specification:</p> <ol style="list-style-type: none">1. Size: 600mm X 1200mm2. Height: 42U3. Lock and Key4. Perforated		

	<ul style="list-style-type: none"> 5. Power capacity/rack: 7.3KVA (1 phase,32Amp, 230Volts) 6. Dual redundant PDUs 7. Minimum number of power sockets per rack PDU are as below: <ul style="list-style-type: none"> a. C13-14 = 19 numbers b. C19-20 = 06 numbers c. Indian 3 PIN Universal socket = 01 number 8. Equipped with cold Aisle containment for better cooling efficiency 		
3.	<p>Cooling:</p> <ul style="list-style-type: none"> 1. N+2 (N working, 2 standby) redundancy with dual circuits at machine level 2. 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. 3. Two dedicated chillers along with gas-based circuits for cooling redundancy 		
4.	<p>Power:</p> <ul style="list-style-type: none"> 1. N+N Redundancy right from main incomer till IT equipment level i.e. N+N UPS, N+N PDUs, N+N UPS panels etc. 2. Separate dedicated UPS for BMS and emergency load in N+N redundancy with 15 minutes battery backup per UPS on full load. 3. Dedicated Diesel Generators each of 1250KVA 		
5.	<p>Meet Me room:</p> <p>Two MUX rooms at two different ends of building with redundant cable path with dedicated basket type of cable tray.</p>		
6.	<p>ELV Systems:</p> <ul 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. 		

	<p>5. NOVEC1230 based Gas Suppression System for Server Room, Mux Room, UPS/Panel Room, staging room and Battery Room.</p> <p>6. Motion based and night vision CCTV Surveillance System covering all DC Areas including ODU locations. Recording is for minimum of 90 days.</p> <p>7. Water leak Detection System for Server Room, MUX room and utility areas.</p> <p>8. Rodent Repellent System for all DC Area.</p>		
7.	<p>Agreement: Successful bidder will have to sign a TRIPARTITE AGREEMENT Between IIT Bombay, Equipment supplier and the hosting service provider.</p>		
8.	<p>Additional Terms and Conditions</p> <p>1. 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.</p> <p>2. Bidders are requested to ask queries only related to technical specifications and unavailability of the materials (if any) as per the tender document.</p>		