

**Selection of Service Provider for Extension of Data Centre at IT Centre, Odisha Secretariat with Supply of Modular Integrated Smart Rack Solution, AMC of existing Server Farm Enclosure & Operational Support**

**(REF NO : OCAC-SEGP-INFRA-0011-2017-24056)**

**Corrigendum**

**1. OEM Eligibility Criteria**

•	The Smart rack OEM should have at least 08 years of experience in executing similar works in Central/State/PSU Organizations. Completion Certificate, as a proof of experience, signed by the concerned authorities to be submitted along with the bid
•	Integrated Smart rack OEM should have its own manufacturing & testing facility in India for offered capacity Rack, Precision air conditioning units for high availability of the proposed solution. Supporting document/undertaking regarding the same to be submitted along with the bid.
•	Smart Rack OEM or Manufacturer should have quality certifications such as ISO 9001:2000, ISO 14001, ISO/IEC 27001:2013 and ISO 45001 (documentary evidence to be submitted)
•	Critical Components for Integrated Smart Racks Data Centre Solution such as Rack, Cooling, rack PDU, and monitoring system along with temperature & humidity sensor should be from the same & single OEM for seamless integration & better Service Supports. Declaration from OEM should be submitted along with the bid

**2. Solution Requirements for Integrated Rack Infrastructure**

<b>a. Solution Requirements</b>	
•	Integrated Smart Rack Infrastructure Solution of 05 no. Prefabricated rack frame, with integrated Cold and Hot aisle containment of minimum 300 mm each, should cater IT load of minimum 25 kW.
<b>b. In-Row closed loop Air-Conditioning</b>	
•	Cooling System should be DX (Variable capacity) type
•	The unit should have a high efficiency DC brushless compressor with a crankcase heater, filter dryer, moisture indicating sight glass, and an electronic expansion valve.
•	The compressor is equipped with an environment-friendly refrigerant (R410A), and a DC brushless type arrangement
•	The unit should be equipped with EC fans.
•	Each unit should have in-built heater & humidifier
•	Other terms as per RFP
<b>c. Rack Power Distribution : 02 no. per rack</b>	

<b>d. Electrical Power Distribution</b>	
•	DB panel should be mounted on to utility with all internal cabling integrated into the same. Essential MCB/MCCB should be provided with electrical system. All the PDUs inside all racks should be connected to the UPS. DB panel mounted on Utility rack shall be covered with Novec 1230/FK-5-1-12 Gas based fire suppression system.
<b>e. Fire Safety, Security &amp; Access Control</b>	
•	Fire detection and suppression system should be mounted in panel adjacent to Smart Racks to avoid consumption of any usable U space. It should have Fire alarm and fire suppression unit and the fire suppression agent should be Novec 1230/FK-5-1-12 Gas as per NFPA guidelines.
•	IP based Biometric Access Control System shall be provided to serve the objective of allowing access to authorized personnel only. The front & rear rack doors will be provided with magnetic locks. Front door will operate on fail-safe principle through one common Biometric access control system.
<b>f. Environmental Controls</b>	
•	Intelligent Integrated rack should include basic environmental controls: Smoke Detector, Water Leak Detection system, Temperature & Humidity Sensor with display with 6 Temp. sampling point per rack, Door Sensor, Alarm beacon and should be covered with Rodent repellent system
<b>g. Rack frame and U Space</b>	
•	03 nos. 42 U 600 mm x 1200 mm (Server) & 02 nos. 42 U 800 mm x 1200 mm (Network) racks with integrated hot & cold aisle containment of minimum 300 mm each.
•	Status based LED light to be provided on each rack.
•	Each rack enclosure should be physically separated through caged partition at cold & hot aisle to avoid unauthorized access from one rack to another.
<b>h. Monitoring</b>	
•	Detailed Monitoring & Diagnostics thru Rack Data Unit with redundant power supplies & capable of single window monitoring of all the environmental parameters along with air conditioning through a single window dashboard over ethernet & Capable for sending Email Alerts
•	Monitoring unit should integrate & monitor environmental parameters like temperature, humidity, door access, smoke etc. with cooling unit in a single dashboard along with other environmental parameters like temperature, humidity, smoke etc.
•	The monitoring unit should support basic protocols like Telnet, SSH, FTP, SFTP, HTTP, HTTPS, NTP, DHCP, DNS Server, smtp, TCP/IP4. It should support network interface of 10/100M self-adaptable Ethernet ports.
•	Touch screen HMI – Graphical User Interface display should be mounted on the Integrated smart rack solution for local monitoring
•	The entire system shall be installed and commissioned as per OEM recommendations & instructions

**The bidder must submit compliance sheet for all specification mentioned in RFP clause No.2 and Point No. 2 above.**