

CORRIGENDUM No.1

Corrigendum no. 1 dated 31.07.2020

Tender no. GEM/2020/B/722204 Dated: 23-07-2020

Name of the Work: "Supply and Installation of Smart Rack Solutions(5 nos)"

Corrigendum-1 is issued herewith for additional terms and conditions in Tender document are detailed below:

- 1: Power Cooling units: 20 KW , N+N Redundancy, based on Variable Capacity modulated (Digital Scroll/Inverter) Technologies with inbuilt heater and humidifier.
- 2: UPS Rating: 20 KVA , 3 phase, N+N Redundancy, with Unity output Power factor and inbuilt Isolation Transformer with 30 mins combined back up (15 Min on each UPS at full load). UPS should have inbuilt static and maintenance bypass
- 3: consignee details Hyderabad 1 nos , Mumbai- 1 nos, Chennai 1 nos , Kolkata -1 nos, Bangalore- 1 nos
- 4: . Dimension of IT Racks : 600mm X 1000 mm with Cold and Hot Aisle containment on Min 200 MM each.
- 5: Nos of IT Racks: 3 nos ; each rack should be physically separated through caged partition to restrict the access.
- 6: Total Rack KVA : 20 KVA
- 7: PDU for each racks: Single/Three phase Phase 16 amps N+N Intelligent Metered
- 8: Electrical Power Distribution: Dual Source DB .
- 9: Solution should be IOT enabled which can be monitored thru RailTel NOC / Vendors NOC remotely
- 10: The solution should be compatible and integrate with the existing DCIM of RailTel at Secunderabad
- 11: Batteries of UPS should be kept outside the Smart Rack and Provision for UPS should be there to keep outside the smart rack depending upon the site condition .ODU should have provision to installed out site the room in which Smart rack solution installed
- 12: Bidder should visit for site and do the inspection to check the site feasibility before participating in bid.
- 13: The overall scope includes design, manufacturing, supply, Installation, Commissioning, Site preparation, lifting shifting, Low side Services to complete the project in all respect.
- 14: Low side & Piping to be considered up to 20- 30 Meters of Indoor & outdoor units considering suitable installation material, trays, support & accessories etc to complete the job in all respect
- 15: Bidder should provide Suitable earth pits (2 Nos) and earthing system (IS3042) to considered with copper strip from earth pits to Datacentre system/ Smart Rack solution. Distance approximate 30 meters needs to be considered in the proposal
- 16: .Bidder should provide UPS, Cooling, Monitoring system, Racks, PDU from one OEM so as to have seamless integration and get common point for services and uptime assurance
- 17: Bidder/OEM should have OR create within 30 days of award of contract, one service centre at installation/base location with adequate manpower and spares to ensure response within 2 Hrs and resolution time of 8-24 Hrs based on type of problem. List of minimum 3 service engineers with direct employment with OEM per location to be provided per location within 30 days of

award of contract.

18: Smart Rack solution System should be design and comply with TIA 942/IEEE/ISO/ASHRAE Standards. Compliance report of same should be submitted by bidder after completion of project

19: All the components used to design the system should be modular, redundant and in the events of failure the components can be changed easily and immediately without any downtime. The scalable design should allow extending the infrastructure easily without disturbing the existing setup. All the components of the infrastructure should be such that it can be easily dismantled and relocated to different location.

20: Smart Rack solution System should provide Air Tight Thermally insulated cabinet, remote Management.

21: Smart Rack solution System should have provision to add an extra rack in future. It should be flexible, adaptable, controllable infrastructure without disturbing the existing setup

22: Single window monitoring system for UPS, Cooling, Environment, Door sensors, Water Leak sensor and other dry contact monitoring.

23: .IP based Access control with user exclusive authentication

24: Monitoring SNMP Enablement feature to connect to any 3rd party BMS over SNMP.

25: Complete IT Racks and Electrical Distribution board within Utility Cabinet to have fire detection & Novec Based Fire Suppression system

26: Status based LED Lights

27: Bidder should provide training for 10-man days.

28: Approximate 20 mtr of power cable to be provided along with suitable capacity of MCCB per site.

29: Option to install UPS outside the rack should be available

30: Buyer Scope: a) RailTel will provide required space (Hall/Room) with suitable power supply (3 Phase). b) RailTel will provide the required workstation for remote monitoring of smart rack system along with Network connectivity

All other terms and conditions of tender remain the same.