

CORRIGENDUM No.4

Corrigendum no. 4 dated 23.05.2020

Tender no. **GEM/2020/RA/40023** dated **17-04-2020**

Name of the Work: "Supply of Servers and switches"

Corrigendum-4 is issued herewith for Additional terms and condition -ATC (Details are published in GeM Portal and shared with bidders registered with GeM on 29-4-2020)

- 1) Server should be a vSAN ready node ,SAP HANA certified and should integrate with existing vSAN cluster solution and should have Hardware (Silicon) root of trust, Cryptographically signed firmware updates, system drift detection, Secure OS and BIOS recovery, and secure erase security features inbuilt. The 2x 240GB SSDs will be used as Boot SSDs in RAID 1 for hypervisor
- 2) The IP switch should be fully populated with 48 x 10G SFP+ SR fiber modules, uplink ports with 4 x 100G and 2x 40G SR fiber modules and uplinked to the existing leaf & spine architecture of CISCO ACI fabric.
- 3) IP Switches and servers should be from the same H/W OEM and server management should support integration/connections with 3rd party Vmware vCenter, Microsoft System Center, Nagios, CA management console etc. Firmware/API licenses should be provided for vCenter integration.
- 4) Server Monitoring, Should be able to monitor all system health and systems components (CPU, RAM, HD, FANs, Power Supplies, HBA's, NICs,) through dash board.
- 5) Power & Temperature monitoring: Should support Real-time power meter, graphing, thresholds, alerts & capping with historical power counters, Temperature monitoring & graphing through dashboard.
- 6) HTML5 support for virtual console & virtual media without using Java or ActiveX plugins. The servers should have dedicated secure Remote management port. Server management console should integrate and work seamlessly with existing Open Manage console.
- 7) Pass-through HBA can also be supplied instead of RAID controller in servers as recommended for vSAN solution. The servers supplied should be compatible and integrated with the existing vSAN cluster and Open Manage management software for seamless performance, operations and unified/integrated management.
- 8) Server should support following Operating Systems: Microsoft Windows Server 2012 or higher, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Ubuntu, Citrix Xen Server, Vmware ESXi.
- 9) The Servers should support to connect external storage devices (like NAS, SAN

- etc.) and should be useable as part of the HCI Solution / for the purpose of Backup.
- 10) All the products quoted should be of the latest generation.
- 11) Each switch and server should be fully populated with SFPs / Connectors and FC / CAT cables, Power Cables (compatible with existing RailTel DC PDUs) required for installation and integration with existing setup .
- 12) Mounting of servers & switches in existing rack in Data center along with Power supply and Network cabling, installation and configuration of systems, physical connectivity to the SAN switches via FC cables in RailTel Data center along with complete supporting cable for HCI configuration.
- 13) Conducting Power On Self-Test (POST) of all Compute, Storage & Network infrastructure and integration with the existing system management.
- 14) Bidder must provide complete onsite training for 20 man days and KT by the OEM or Authorized distributor/Partner of OEM for installation, configuration, and management of Supplied IT components. Bidder also has to provide project report, covering entire implementation Step-by-step Document in hard copy and Soft copy for above mentioned items to RailTel.
- 15) Consignee location is Secunderabad and Gurugram ; details will be communicated after finalization of Bid in GeM.
- 16) Documentation related to installation and commissioning of physical server and switches along with Product Manuals have to be submitted.
- 17) The OEM should provide 24X7 customer service & support with 4 Hour response time on the same business day and Next Business Day for Onsite OEM technician & replacement parts support for 3 years from date of Site Acceptance Test & signoff.
- 18) The OEM should provide a dedicated senior technical resource to perform regular system health check and maintenance activities and also provide timely system assessment reports and recommendations. The designated resource should be available on call basis and should conduct regular system review meetings with the Railtel technical staff. The proposed solution should support automated issue detection & alerting, automated case creation, notification and resolution through OEM technical support for faster system remediation and maximum uptime.
- 19) Bidder should provide all firmware/security/software updates and patches for Server, OS updates/upgrades of Switch regularly during warranty/guarantee and service support period without any additional cost.

All other terms and conditions of tender remain the same.