Substation Package - SS01 for (i) 400kV Bay extension at
Chittorgarh S/s through TBCB route
SAS & CR Panel
Doc. No.: TB-418-510-005A Rev 0

CORRIGENDUM

Sl. No.	Existing Clause	New Clause
Section SAS Rev 4 Para 2 Under Clause No.4.1.6	The substation firewall shall have the following features: - IP firewall features such as Address/port inspection and filtering - Shall be stateful firewall - Shall support upto 8 Ethernet switches 10/100 Mbps - Shall support IPv4 and IPv6 - Shall have IP sec/VPN with 3DES/AES encryption - Shall have NAT - Shall have syslog capability - Shall be NERC compliant - Shall have hot- standby operation with similar router - Shall support SNTP & SNMPv3 protocols	Contractor shall provide 2 nos. Next Generation Firewalls (NGFW); one No. Main & one No. Standby having electrical ethernet interfaces/ports and placed between FOTE & SAS gateways, NTAMC switch etc. at the substation. All ethernet based applications (e.g. PMU, AMR, VOIP, SAS/SCADA etc.) shall be terminated in the firewall ports directly. Each port of firewall shall work as a separate zone. Firewall shall be hardware based with functionality of Block/Allow/drop and IPSec VPN (network encryption). Minimum 16 Nos. of ports/interfaces shall be provided in each firewall (i.e. Main & Standby) Contractor can use either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps. The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future. OEM Support on 24x7 basis for 7 years shall be provided for all the functions & features of the Firewall. Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERCCIP Compliance. The specifications for the firewalls are attached at Appendix-1.

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