



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

CIN No. U40109MH2005SGC153646

From :

EHV Projects Division – I

3rd floor, Administrative Building, 925, Kasbapeth, Juna Bazar Rd, Pune.

Contact No. : 020-24579223, 24572129 Fax No. : 24573602

Email Id : ee6610@mahatransco.in

EE/EHVPD-I/PN/T/ TG 14D/ 10 - 1632

Date : 10 3 NOV 2023

TO WHOM SO EVER IT MAY CONCERN

This office intends to carry out the work of Supply, Installation, and Configuration & Support of 'New Hardware firewall' along with subscriptions with 1 year validity (from the date of activation) at this office. The details of the same are as below and scope of work is attached.

work details	unit	Quantity	Ex work rate with LC/ unit	GST %	Total Amount including GST
Supply, Installation, Configuration of 'Hardware firewall with Subscriptions for 1 years' as per below given 'Scope of Work' at EHV PD-I, Pune, MSETCL.	No	1			
Support for 'Hardware firewall for 1 years' as per below given 'Scope of Work' at EHV PD, Pune, MSETCL.	Quarter	4			

All interested are requested to submit their best offer for above said work in above given format on Email ID:ee6610@mahatransco.in alongwith applicable rate of GST & LC on or before 06.10.23 positively.

This budgetary offer is invited only for estimation purpose and same will not be considered for any bidding. Please note.

(Mahendra Katenge)
Executive Engineer
EHV Project Division – I, Pune

Stm.

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Scope of Work:

- 1) Supply, Installation, Configuration, and Support of 1 'New Hardware Firewall' along with the following subscriptions, each with a 1-year validity (from the date of activation). This is to cover the needs of three offices located in the same building, each situated on a different floor. The works, features, and functionalities are as below:
 - a) **User Count:** 85-100 Users (count of all three offices).
 - b) Existing BSNL ISP (FIBER OPTIC) to be shifted to fourth floor Civil Division office where this firewall will be install, vendor has to carried out this work with Civil Division ISP also.
 - c) **Base Firewall Feature :**
 - i. **Networking and SD-WAN:** Wireless, SD-WAN, application aware routing, traffic shaping
 - ii. **Protection and Performance:** Network Flow FastPath, TLS 1.3 inspection, Deep-Packet Inspection
 - iii. **SD-WAN and VPN:** SD-WAN, IPsec/SSL site-to-site and remote access VPN (unlimited)
 - iv. **Reporting:** Historical on-box logging and reporting, Cloud reporting (minimum seven-day data retention)
 - d) **Network Protection:**
 - i. **TLS Inspection:** TLS 1.3 inspection with prepackaged exceptions
 - ii. **DPI engine:** streaming deep-packet inspection
 - iii. **IPS:** Next-gen Intrusion Prevention
 - iv. **ATP:** Advanced Threat Protection Synchronized Security
 - v. **Heartbeat:** integration with Sophos Endpoints to identify and isolate threats
 - vi. **Clientless VPN:** HTML5
 - vii. **SD-RED VPN:** Sophos SD-RED site-to-site VPN. Manage SD-RED devices
 - viii. **Reporting:** Extensive network and threat reporting
 - e) **Web Protection:**
 - i. **TLS Inspection:** TLS 1.3 inspection with pre-packaged exceptions
 - ii. **DPI engine:** streaming deep-packet inspection
 - iii. **Web Control:** by user, group, category, URL, keyword
 - iv. **Web Threat Protection:** malware, PUA, malicious JavaScript, pharming
 - v. **App Control:** by user, group, category, risk, and more
 - vi. **Synchronized App Control:** integration with Sophos endpoints to identify unknown apps
 - vii. **Synchronized SD-WAN:** utilizing Synchronized App Control to route unknown apps
 - viii. **Reporting:** Extensive web and app reporting
 - f) **Zero-Day Protection:**
 - i. **TLS Inspection:** TLS 1.3 inspection with pre-packaged exceptions
 - ii. **DPI engine:** streaming deep-packet inspection
 - iii. **Zero-Day Threat Protection:** Analyse all unknown files using AI, ML, and sandboxing
 - iv. **Cloud-based intelligence and analysis.**
 - v. **Machine Learning:** using multiple deep learning models
 - vi. **Cloud Sandboxing:** dynamic run-time analysis of unknown files
 - vii. **Reporting:** Extensive threat intelligence analysis reporting

g) Standard Protection features:

- i. **Base License:** Networking, wireless, SD-WAN, unlimited remote access VPN, site-to-site VPN
- ii. **Network Protection:** TLS and DPI engine, IPS, ATP, Security Heartbeat, SD-RED VPN, reporting
- iii. **Web Protection:** TLS and DPI engine, Web Security and Control, Application Control, reporting
- iv. **Full Support:** 24/7 on site support, feature updates, advanced replacement hardware warranty for tenure.

h) Hardware Specifications:

- i. LAN 1-8: 8 x GbE copper Fixed
- ii. 2 x SFP fiber ports Fixed
- iii. 1 x expansion bay for above setup
- iv. Integrated minimum 120 GB SATA-III SSD
- v. **Bypass port pairs : 1**
- vi. **Management ports:**
1 x RJ45 MGMT, 1 x COM RJ45, 1 x Micro-USB (cable inclusive)
- vii. **Other I/O ports:**
2 x USB 3.0 (front), 1 x USB 2.0 (rear)
- viii. **Number of Flexi Port slots : 1**
- ix. **Flexi Port modules : (Optional provision should be there)**
8 port GbE copper , 8 port GbE SFP fiber, 4 port 10GE SFP+ fiber , 4 port GbE copper bypass (2 pairs) , 4 port GbE copper PoE + 4 port GbE copper, 4 port 2.5 GbE copper PoE
- x. **Display :** Multi-function LCD module
- xi. Power switch , Power supply , USB , Connector for external redundant power supply, Mounting pins for external power supply
- xii. **Size:** 4U rackmount

i) Performance:

Firewall throughput: Minimum 30,000 Mbps , **Firewall IMIX:** Minimum 15,900 Mbps, **Firewall Latency (64 byte UDP) :** 6 μ s , **IPS throughput:** Minimum 5,800 Mbps, **Threat Protection throughput:** Minimum 1,250 Mbps, **Concurrent connections:** Minimum 6,500,000, **New connections/second :** Minimum 134,700
IPsec VPN throughput: Minimum 3,000 Mbps, **SSL/TLS Inspection:** Minimum 1,100 Mbps, **SSL/TLS Concurrent connections:** Minimum 18,432

- j) Product Certifications: CB, CE, UL, FCC, ISED, VCCI, KC, RCM, NOM, Anatel etc.
- k) It should be Rack mounted.
- l) Bidder shall fully provide & apply, each & every settings in existing Sophos XG 210, like but not limited to Rules & Policies, All Network settings, Routing, Hosts & Services, and VPN Settings, user creation, login software installation etc. These are just illustrative examples.
- m) Bidder shall apply IP Schema for 512 Private LAN IPs.
- n) Bidder shall physically install Hardware in existing Rack with required screws, fastener, required GBIC etc. Also, any kind of hardware will be provided by bidder only.
- o) Bidder shall handover license copy registered in the name of MSETCL after complete installation of Firewall.

p) Support:

- i. Bidder shall provide 24/7 support to MSETCL like but not limited to backup, reinstallation, new policies, new configuration, new rules, new network related things etc. of firewall in full or partially within these 1 years within 24 hrs after reporting.
- ii. Bidder shall apply CERT-IN & security settings which are given by Cyber Security Team & IT Section, MSETCL like but not limited to Malware blocking, IP blocking, hash values blocking in firewall time to time within one day after intimation during support period of 1 years. Also, bidder will reply by email about completion of this work.
- iii. Bidder shall make settings as per given by IT Section Time to Time within one day & reply by email about completion.
- iv. Bidder shall take back up of firewall fully per month (date will be fixed by MSETCL) & keep safe in there custody.

q) Miscellaneous Features & Functionalities:

Firewall should:

- i. Secure the network from viruses, malware, or malicious attachments by scanning the incoming data using Deep Packet Inspection.
- ii. Should prevent attacks before they enter the network by inspecting the packet headers.
- iii. Should prevent access to unwanted websites by installing enhanced web filtering.
- iv. Should have ability to update automatically with the latest security updates, anti-virus definitions, and new features so that minimal manual intervention is required beyond initial set-up.
- v. Should enable administrators to manage a wide range of security functions with a single management console.
- vi. Should be accessible by LAN IP & through static IP whenever required. Also, should be accessed by COM port, web cli.
- vii. Should have login software for access to the Internet & firewall services & login through browser should be possible. Login username will be SAP ID (5 digit numeric).
- viii. Should have hosts & services facility. And should comply CERT-IN guidelines & bidder will apply same policies given by MSETCL time to time for blocking Ips, urls, hashes or by Cyber Security Team time to time etc. This is just illustrative example.

r) License: Firewall should be licensed to EHV PD-I,Pune, MSETCL for One years. Certificate of License & Validity, in the name of Executive Engineer, M.S.E.T.C.L., Pune, should be provided for the same for application by bidder (Certificate from OEM is a mandatory for License & Validity). Validity of the licence shall be 1 years.

s) Training: An in-house training of minimum 1 (One) day to EHV PD-I,Pune, MSETCL for day to day operation and maintenance of the application is to be given by the bidder.

t) Application Management Services: Bidder will arrange a visit of Technical professional every Quarter, who shall do random check of firewall system and will give a report of inspection. In case of emergency, bidder should provide onsite support as requested by MSETCL.

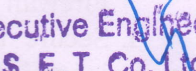
u) Installation Period: it is desire to complete the entire installation of Firewall within 15 days.

v) Hardware Firewall along with all above features & functionalities should be brand New & no refurbished product to given.

w) All works to be carried out in Admin Building, Kasaba Peth, MSETCL-411011 in existing Local area network. MSETCL shall not provide any kind of hardware/software & bidder shall perform work throughout.

x) **Other Important Tender Terms & Conditions in line with standard MSETCL Terms & Conditions:**

- i. Bidder must be 'Computer Hardware & Software Supplier' Agency or Company or Organization.
- ii. Bidders are suggested to visit the work execution site (Admin Building, Kasaba peth, MSETCL, Pune-411011) to have accurate knowledge of IT set up and Scope of Work.


Executive Engineer
M S E T Co. Ltd.
EHV Projects Dn.I, Pune