	MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO LTD. Office of the **EXECUTIVE ENGINEER** EHV O&M DIVISION, Pimpri-Chinchwad Near 220 KV S/S Chinchwad Bijlinagar, Chinchwad, Pune – 411 033. **Email ID :- ee61b0@mahatransco.in** (CIN No. U40109MH2005SGC153646)	

No.: EE/PCDN/Tech./ No. 1018   Date : 23.11.2023

TO WHOM SO EVER IT MAY CONCERN

Subject:- Inviting budgetary offers for Supply, Installation, and Configuration & Support of 'New Hardware firewall' along with subscriptions with 1 year validity at EHV O&M Division Pimpri-Chinchwad, Pune.

Dear Sir,

The budgetary offers are invited for the following scope of work for Supply, Installation, and Configuration & Support of 'New Hardware firewall' along with subscriptions with 1 year validity at EHV O&M Division Pimpri-Chinchwad, Pune.

Work Details	Unit	Quantity	Ex work rate with LC	GST %	Total Amount including GST
Supply, Installation, Configuration of 'Hardware firewall with Subscription for 1 year' as per attached 'Scope of Work' at EHV O&M Division Pimpri-Chinchwad, Pune.	No	1			
Support for 'Hardware firewall with Subscription for 1 year' as per attached 'Scope of Work' at EHV O&M Division Pimpri-Chinchwad, Pune.	Quarter	4			

Note:
1. Please specify all taxes & statutory cess as extra specifically with your offer.
2. Please specify all technical specifications for above said requirement.
3. Your Offer should reach this Office **on or before Date:29.11.2023** by e-mail on mail id ee61b0@mahatransco.in OR hard copy on office address**.**
4. The Offer should be valid for at least 06 (six) months.
5. The right to accept offer for part or to cancel any or all budgetary offer without assigning any reasons is reserved with undersigned.
6. This budgetary offer is invited only for estimation purpose and same will not be considered for any bidding OR other activity. Please note.

Sd/-
(Deepak D. Madane)
Executive Engineer
Pimpri-Chinchwad Division, Pune

Scope of Work:

1) Supply, Installation, Configuration & Support of 'New Hardware firewall' along with following subscriptions with 1 year validity (from the date of activation) with following works, features & functionalities:

a) **User Count:** 35 Users.

b) **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)

c) **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

d) **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

e) **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

f) **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.

g) 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:** 1U rackmount

h) Performance:
  Firewall throughput: Minimum 30,000 Mbps , **Firewall IMIX:** Minimum 15,900 Mbps,**Firewall Latency (64 byte UDP) :** 6 μs ,**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

i) Product Certifications: CB, CE, UL, FCC, ISED, VCCI, KC, RCM, NOM, Anatel etc.

j) It should be Rack mounted.

k) Bidder shall apply IP Schema for 512 Private LAN IPs.

l) 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.

m) Bidder shall handover license copy registered in the name of MSETCL after complete installation of Firewall.

n) 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 year 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 year. 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.

o) 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.

ix. Firewall should have incoming ports as per ISP.

p) **License:** Firewall should be licensed to EHV O&M Division Pimpri-Chinchwad, Pune, MSETCL for One year. 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 year.

q) **Training:** An in-house training of minimum 1 (One) day to EHV O&M Division Pimpri-Chinchwad, Pune, MSETCL for day to day operation and maintenance of the application is to be given by the bidder.

r) **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.

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

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

u) All works to be carried out in office of Executive Engineer, EHV O&M Division Pimpri-Chinchwad, Near 220 KV S/S Chinchwad, Bijlinagar, Chinchwad, Pune – 411 033 in existing Local area network. MSETCL shall not provide any kind of hardware/software & bidder shall perform work throughout.

v) Bidder must be 'Computer Hardware & Software Supplier' Agency or Company or Organization.

w) Bidders are suggested to visit the wok execution site (office of Executive Engineer, EHV O&M Division Pimpri-Chinchwad, Near 220 KV S/S Chinchwad, Bijlinagar, Chinchwad, Pune – 411 033) to have accurate knowledge of IT set up and Scope of Work.

Yours faithfully,

Sd/-
(Deepak D. Madane)
Executive Engineer
Pimpri-Chinchwad Division, Pune