

**NATIONAL INVESTIGATION AGENCY**

**Ministry of Home Affairs**

**H.No.28/443, Girinagar,  
Kadavanthara, Kochi, Kerala – 682 020**

No.E1/Proc Corres/Switch/NIA/Kochi/2014/749

Dated : 29/09/2015

**TENDER NOTICE**

The Superintendent of Police, National Investigation Agency, Govt. of India, Ministry of Home Affairs, 28/443, Girinagar, Kadavanthara, Kochi, Kerala – 682 020 invites sealed quotations from OEMs (Original Equipment Manufacturers) or OEM authorized distributors for procurement of following equipments for NIA Branch Office (The detailed specifications of the items are attached as Annexure 1 to 3). The approximate cost of the item comes below Rs.5 lakhs.

Sl. No.	Particulars	Requirement
1.	Network Firewall (Perimeter Security Device)	01 No.
2.	Core Switch (24 port, stackable, layer3)	01 No.
3.	Access Switch (24 port, stackable, layer2)	02 Nos.

2. The Tender Document can also be downloaded from the NIA website <http://www.nia.gov.in>. In this case, the Bid (Technical) should be accompanied by a Demand Draft of Rs.500/- (Rupees five hundred only) which is non-refundable drawn on any Nationalised Bank in favour of "Superintendent of Police, National Investigation Agency, payable at Ernakulam, Kochi.

3. Sealed quotations, duly super-scribed "Quotation for Firewall and Manageable Switches" and addressed to the undersigned, may be deposited in the Tender Box kept at Main Reception, National Investigation Agency, 28/443, Girinagar, Kadavanthara, Kochi, Kerala – 682 020 not later than 14:00 Hrs. on **15/10/2015**. The quotations may also be sent by post so as to reach the undersigned by due date and time. Quotations received after stipulated date/time shall not be entertained.

Superintendent of Police  
NIA Branch Office, Kochi.

Encl. : Tender Document dated \_\_\_\_\_.

Distribution

1.	IT Division, NIA HQrs	---	With a request that it may be posted in the web site of the NIA and remove the same from the site for the month of Nov'2015.
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**Ministry of Home Affairs**  
**H.No.28/443, Girinagar,**  
**Kadavanthara, Kochi, Kerala – 682 020**

Dated :        /09/2015

**DETAILED INFORMATION / TERMS & CONDITIONS IN CONNECTION**  
**WITH THE TENDER FOR SUPPLY OF FIREWALL AND MANAGEABLE**  
**SWITCH**

Sealed Bids are invited by the National Investigation Agency, for supply of manageable switch (as per specifications mentioned in Annexure 1 to 2). The time schedule is as under :-

Closing Date & Time for Receipt of Tender :        15/10/2015 (14:00 Hrs.)

Place for Submitting of Tender :        Tender Box kept at Main Reception,  
National Investigation Agency,  
28/443, Girinagar, Kadavanthara,  
Kochi, Kerala – 682 020

Tender Opening (Technical Bid) Date & Time :        15/10/2015 at 16:00 Hrs.

Place of Tender Opening :        Conference Hall,  
National Investigation Agency,  
28/443, Girinagar, Kadavanthara,  
Kochi, Kerala – 682 020

The Technical Bid should be accompanied by a Demand Draft of Rs.500/- (Non – Refundable) on account of tender fee drawn in favour of SP, NIA BO Kochi payable at Ernakulam.

This Tender Document may also be downloaded from the NIA website <http://www.nia.gov.in>.

2.        **SUBMISSION OF BIDS** :- The Bid, in the prescribed format in a sealed cover, duly superscribed “Quotation for Firewall and Manageable Switches” and addressed to the Superintendent of Police, National Investigation Agency, 28/443, Girinagar, Kadavanthara, Kochi, Kerala – 682 020 should be sent by Registered Post or deposited in the Tender Box kept at Main Reception Gate, 28/443, Girinagar, Kadavanthara, Kochi, Kerala – 682 020, not later than 14:00 Hrs on 15/10/2015, containing two separate sealed covers – One containing “TECHNICAL BID” and another containing “FINANCIAL BID”.

Cond...P/2...

2.1 **TECHNICAL BID**: - First sealed cover superscribed as “TECHNICAL BID for “Firewall and Manageable Switches” should contain following documents:-

- a) VAT / Sales Tax Registration Certificate along with TIN Number.
- b) Earnest Money Deposit for Rs.15,000/- (Rupees fifteen thousand only) as per clause no.4 of the Tender Enquiry Document.
- c) Tender Fee, in the prescribed form, in case of the Tender Document is downloaded from website.
- d) Bidder should be an ISO 9001 certified system integrator.
- e) Copies of Income Tax Return filed for the last three financial years/copies of profit or loss statement for last three financial years.
- f) Bidders should not have been blacklisted by Departments/Ministries of the Govt of India. Letter should be submitted as per **Annexure-3**.

2.2 **FINANCIAL BID** :-

Second sealed cover superscribed as “**Financial Bid**” should contain price schedule, duly signed and stamped on each page, in the prescribed format. Unstamped and / or unsigned Bids will not be entertained. The price bid should be in the same format as per Annexure – A (**Without VAT**) and the percentage of VAT to be mentioned separately against the quoted price. The rates are also to be inclusive of all i.e., cost of item, delivery charges and all other taxes except VAT.

- 2.3 The bidders should quote their unconditional rates, strictly as per the tender format. Cutting / overwriting, if any, should be countersigned.
- 2.4 The tenderer has to quote the rates of each of the items mentioned in Annexure – A otherwise, the Financial Bid would not be considered by the department.

### 3. **OPENING OF THE BIDS**

- 3.1 The Technical Bids will be opened on the date indicated at para – 1 above at 16:00 hrs on 15/10/2015 at Conference Hall, 28/443, Girinagar, Kadavanthara, Kochi, Kerala – 682 020 in the presence of the bidders or their representatives who may like to be present.
- 3.2 Financial Bids of the eligible bidders who are technically qualified will be opened on a later date. The date, time and venue for opening of financial bids will be informed later.
- 3.3 Late Bids: Bids received after the specified date and time, as indicated in para – 1 above, will not be considered.
- 3.4 The technical bids will be evaluated by a duly constituted Tender Process Committee.

4. **EARNEST MONEY DEPOSIT (EMD) / BID SECURITY**

- 4.1 EMD of **Rs.15,000/- (Rupees Fifteen Thousand Only)** in the form of demand draft/banker's cheque from any commercial bank payable in favour of the SP, NIA Branch Office, Kochi must accompany the Technical Bid. The Bidder may write the tender No., name and address of the bidder on the reverse of EMD Draft/Banker Cheque. The Tenders received without EMD / Bid Security will be summarily rejected.
- 4.2 The firms registered with DGS&D/National Small Industries Corporation (NSIC) /Ministry of Home Affairs are exempted from depositing bid security. However, they have to enclose valid registration certificate (s) with their tender in a sealed envelope superscribed "BID SECURITY DEPOSIT".
- 4.3 EMD of all the unsuccessful bidders will be returned to them within one month after finalisation of the contract. EMD of the successful bidders will be returned only after receipt of the Performance Security. In case of successful tenderers, the Bid Security may be adjusted towards the Performance Security Deposit to be payable, on request.
- 4.4 The amount of BG or amount remitted towards Bid Security is liable to be forfeited if the tenderer resigns from the offer after submission of the tender or after the acceptance of the offer by the department or fails to sign the contract or to remit the Performance Security Deposit.
- 4.5 No interest will be paid by the department on the BID / Performance Security deposited /remitted.
- 4.6 The EMD may be forfeited, if a Bidder withdraw his bid during the period of bid validity, specified by the Bidder in the Bid and/or on submission of false documents/undertaking.
- 4.7 The submission of EMD is compulsory for all the bidders and no exemption will be granted for submission of EMD in any case.

5. **PERFORMANCE SECURITY**

- 5.1 The successful bidder will have to furnish Performance Security of **Rs.20,000/- (Rupees twenty thousand only)** in the form of F.D.R. from any of the commercial bank, in the name of the firm / agency, but hypothecated in the name of the SP, NIA Branch Office, Kochi or in the form of Bank Guarantee, from any of the commercial bank, in favour of the SP, NIA Branch Office, Kochi within 15 working days of the award of the contract.
- 5.2 Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations.
- 5.3 Performance Security will be forfeited if the firm fails to perform any of the terms or conditions of the contract.



- 5.4 In case, the firm fails to supply any of the items within specified delivery period, the materials will be procured from open market and the difference of cost, if any, will be recovered from Security Money or from pending bill of defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security.

6. **Period of Validity of Tender**

The tender will remain valid for one year. A tender for a shorter period shall be rejected by the department, being non-responsive. The rate quoted excluding VAT should remain same during the entire contract period.

7. **LIQUIDATED DAMAGES**

The date of delivery and quality of equipments stipulated in the acceptance of tenders should be deemed to be essence of the contract and delivery must be completed not later than the dates specified therein. Extension will not be given except in exceptional circumstances. Should, however, deliveries made after expiry of the contracted delivery period, without prior concurrence of the department and be accepted by the consignee, such delivery will not deprive the department of its right to levy a penalty @ 0.5% per week or part thereof, on the total value of the late delivered quantity for the period by which it exceeds the stipulated 15 (fifteen) working days time period, from the date of issue of each supply order, subject to a maximum of 5%. In the event of delay of more than 6 weeks, purchaser will have the right of revoking purchase order and forfeiting the Security Deposit.

8. **PAYMENT TERMS**

The payment will be made after successful delivery and installation of all the equipment to the consignee(s) on production of following documents:-

- 8.1 Receipt from the concerned officer in the location for having received the material with quantity of each item.
- 8.2 Bills in triplicate should be sent later and the payment shall be released only after it is ensured that the items / quality of the items supplied are to the entire satisfaction of the department. If any item is found to be defective, or not of the desired quality etc., the same shall be replaced by the firm(s) immediately for which no extra payment shall be made.
9. In case the bidders/successful bidder(s) are found in breach of any condition(s) at any stage of the tender, legal action as per rules/laws shall be initiated against the agency concerned. In that case, Earnest Money/Performance Security Money, deposited shall be forfeited after giving proper opportunity through show cause notice.
10. The Tender Processing Committee, in order to satisfy itself, may conduct a spot enquiry to verify soundness, capability and viability with regard to capacity to execute the orders placed on the firms(s) and also may check the godowns of the firm(s).

11. Due to criticality of the requirement, this office may, if it feels necessary, split any / all the supply orders to more than one firm at the rate quoted by L-1 firm. A committee will consider the option for splitting the supply to more than one firm after assessing the bids. In case the supply is split among two firms, the ratio will be 60% from L-1 and 40% from the other sequential firm (L/2, L/3, L/4 etc.). The splitting of the supply order at 60% and 40% may be quantity- wise, item-wise or amount-wise. However the department reserves the right to alter this ratio if it is found that there is a deficiency in the service provided by either vendor.
12. The SP, NIA Kochi reserves the right to accept or reject any or all the tenders in part or in full, without assigning any reason thereof and NIA is not bound to accept the lowest or any tender.
13. The department reserves the right to relax / amend / withdraw any of the terms and conditions contained in the Tender Documents without assigning any reason thereof. Any inquiry after submission of the quotation will not be entertained.
14. **OTHER TERMS AND CONDITIONS :-**
  - 14.1 The owner / manager of the firm should be available on his / her own direct telephone (office as well as residence) and also on mobile phone so as to call in emergent case. The mobile number should also be given.
  - 14.2 No advance payment will be made in any case.
  - 14.3 Income Tax : Deductable at source from supplier's bill, as applicable.
  - 14.4 The firm must have an annual turnover of at least **Rupees Fifteen lacs** each for the last three years. The firm must attach audited balance sheet of last three years, along with the Technical Bid in this regard.
  - 14.5 The complaint should invariable be attended to by the firm within 4 hours of lodging the same and must be resolved within 24 hours. The engineer of the firm/OEM will attend the complaint at the location of the item(s).
  - 14.6 The firm may be **blacklisted** for further business with National Investigation Agency owing to non-performance of satisfactory and timely service.
  - 14.7 If there is any damage during transportation, the same would be borne by the supplier firm. The damaged item should be replaced by the supplier.
  - 14.8 The tender document is not transferable.
15. **TERMINATION FOR INSOLVENCY**

The department may at any time terminate the Contract Agreement by giving a written notice to the successful firm, without compensation to the firm, if the firm becomes bankrupt or otherwise insolvent as declared by the competent Court, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the department.

16. **WARRANTY OF QUALITY AND QUANTITY OF EQUIPMENTS**

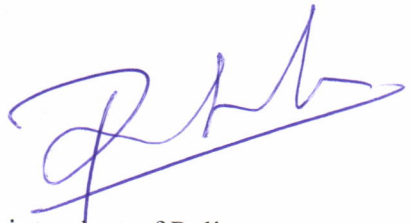
- 16.1 The awardee shall give warranty that all equipments are as per specification, conforming to the specified design and there are no defects in the process of manufacturing, packaging, transportation and delivery.
- 16.2 Upon receipt of notice from department for defective material, the firm shall within 7 days of receipt of the notice, replace the defective material, free of cost at the destination. The firm shall take over the defective material at the time of their replacement. No claim whatsoever shall lie on the department for the replaced goods thereafter. If the firm fails to replace the defective goods within a reasonable period, the department may proceed to take such remedial actions as may be necessary, at the company's risk and expense.

17. **FORCE MAJEURE**

- 17.1 Should any force majeure circumstances arise, each of the contracting parties is excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within 15 days of its occurrence informs in a written form the other party.
- 17.2 Force Majeure shall mean fire, flood, natural disaster or other acts such as war, turmoil, sabotage, explosions, epidemics, quarantine restriction, strikes, lockouts beyond the control of either party.

17.3. **ARBITRATION**

In the event of any question, dispute or difference arising between the department and the company relating to any matter arising out of or connected with the manufacturing, packaging and delivery, job assigned to the firm for execution under the contract agreement, the same shall be referred to the sole arbitration of an officer to be nominated by The Superintendent of Police, NIA(MHA), Kochi. The decision of the arbitrator shall be final and binding on both the parties to the agreement.

  
Superintendent of Police  
NIA Branch Office, Kochi.



SIGNATURE AND SEAL OF TENDERER  
NAME IN BLOCK LETTERS  
FULL ADDRESS



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In the event of any question, dispute or difference arising between the department and the company relating to any matter arising out of or connected with the manufacturing, packaging and delivery, job assigned to the firm for execution under the contract agreement, the same shall be referred to the sole arbitration of an officer to be nominated by The Superintendent of Police, NIA(MHA), Kochi. The decision of the arbitrator shall be final and binding on both the parties to the agreement.



Superintendent of Police  
NIA Branch Office, Kochi.

SIGNATURE AND SEAL OF TENDERER  
NAME IN BLOCK LETTERS  
FULL ADDRESS

**ANNEXURE –‘A’**

**PRICE SCHEDULE**

Ref: SP, NIA BO, Kochi letter No.E1/Proc Corres/Switch/NIA/Kochi/2015/  
\_\_\_/09/2015

dated

S/No	Name of items	A/U	Rate per unit	VAT/ Service Tax	Grand Total
1.	Network Firewall (Perimeter Security Device)	01 No.			
2.	Core Switch (24 port, stackable, layer3)	01 No.			
3.	Access Switch (24 port, stackable, layer2)	02 Nos.			

Name of the firm : \_\_\_\_\_

Authorized person : \_\_\_\_\_

Address of the firm: \_\_\_\_\_

Contact No. : \_\_\_\_\_

Fax No : \_\_\_\_\_

TIN No. : \_\_\_\_\_ (Copy enclosed)

PAN No. : \_\_\_\_\_ (Copy enclosed)

Details of EMD enclosed.

DD No and date: \_\_\_\_\_

Amount : **Rs. 15,000/-**

Name of the Bank/Branch \_\_\_\_\_

We are ready to accept all the terms and conditions mentioned in the tender.

Dated, the \_\_\_\_\_ 2015.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Contact No. \_\_\_\_\_

DECLARATION

From

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To

The Superintendent of Police  
National Investigation Agency  
28/443, Girinagar, Kadavanthara,  
Kochi, Kerala – 682 020

Sir,

I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender document.

2. I/We also confirm that in the event of my/our tender being accepted, I/We hereby undertake to furnish Performance Security Deposit (PSD), as applicable, in the form of Demand Draft/Bank Guarantee within the stipulated period.

3. I/We hereby declare that neither firm nor any of the Proprietor/Partner/Director of the firm have ever been black listed/suspended for business by any Department of Government of India/Public Undertaking.

Yours faithfully

Signature, name & address  
of authorized signatory of the firm with seal

Dated \_\_\_\_\_

### List of vendors

1.	Accel Frontline Limited, 1 <sup>st</sup> Floor 64/2401, Vithayathil Buildings, Veekshanam Road, Cochin – 682 018
2.	Aldous Glare G63, Panampally Nagar Cochin, Kerala
3.	Datarola Computer Systems Pvt Ltd Kurisupaly Road Ravipuram Ernakulam 682015
4.	Falcon Systems 39/ 5638, Thoundayil Lane, Panampilly Nagar, Kochi, Kerala
5.	HCL Infosystems Ltd, 3319/53, Manetarambil, First Floor, Thoundayil Lane, Panampilly Nagar, Cochin.
6.	Lotus Infotech South Over-bridge, KSN Menon Rd, Ravipuram, Perumanoor, Ernakulam, Kerala 682016
7.	M/s Axcenta ITES Pvt Ltd, 35/1612-A, South Janatha Road, Palarivattom, Cochin - 682 025.
8.	M/s United Computech Systems (India) Pvt. Ltd. 36/651, A4(1), Leela Estate, P.F. Road, Kaloore, Kochi – 682 017.
9.	M/s Cyber Park, Meera Electronics & Services (P) Ltd, Eelayalil Shopping Complex, East Fort Gate, Tripunithura
10.	M/s Techser Power Solutions Pvt Ltd. No.37, Plot No.97, Jawahar Nagar, Kadavanthra, Cochin – 682 020.
11.	Neural Networks 37/1444, Emmanuel Road, Kaloore - Kadavanthra Road, Kadavanthra, Kochi- 682017
12.	Nortech Infonet Pvt. Ltd, Calton House, Bank Road, 37/2849, Nortech House, Kaloore, Cochin – 682 017.
13.	Positive Systems 39/1568, Madakkappilly Lane, Chittoor Road, Kalathiparambi Rd, Kadavanthra, Ernakulam, Kerala
14.	Secure Solutions 38/2402, AV George Road, Kaloore, Kadavanthra, Kochi – 682 017
15.	Smartnet Informatics 33/1337C, Chalikkavattom, Vennala P.O, Kochi, Kerala (INDIA), 682 028.
16.	Smartsoft Ambelipadam Road, Vyttila, Kochi 682 019.
17.	Wipro Limited, 2 <sup>nd</sup> & 3 <sup>rd</sup> Floor, Panorama House, Subhash Chandra Bose Road, Kathrikadavu-Vyttila Road, Kadavanthra, Kochi .



## **Annexure - 1**

### **1. ITEMS REQUIRED**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Requirement</b>
1.	Network Firewall (Perimeter security device)	01 No.
2.	Core switch (24 port, stackable, layer3)	01 No.
3.	Access switch (24 port, stackable, layer2)	02 Nos.

### **2. TECHNICAL SPECIFICATIONS FOR NETWORK EQUIPMENTS**

Specification of the above items are given below :

#### **I. Network Firewall (Perimeter Security Device) --- 1 No.**

##### **Needed Features of Network Firewall**

- 1) The Firewall must be appliance based.
- 2) Licensing: should be per device license for unlimited users for Firewall / VPN (IPSec & SSL) and other features. There should not be any user/IP/host based licenses – Please specify if the product does not follow the required licensing policy.
- 3) The device should be having security functions like Firewall, VPN (IPSec & SSL), Application firewall, Gateway level antivirus, Antispam, Category based web filtering, Intrusion prevention system, Traffic shaping, etc.
- 4) The platform must be capable of supporting a minimum of 12 interfaces with auto sensing 10/100/1000 capability.
- 5) The Firewall must support at least 1,500,000 concurrent connections and 4,000 new sessions per second.
- 6) The Firewall should be having minimum 3 Gbps throughput or better
- 7) Should support 700 Mbps IPSec VPN through put. Should support 150 Gateway-to-Gateway and 900 Client-to-Gateway IPSec VPN Tunnels.
- 8) The firewall should support a minimum of at least 270 Mbps of IPS & 60 Mbps Gateway Antivirus through put or better.
- 9) Should support more than one ISP link with automatic ISP link failover as well as ISP link load sharing for outbound traffic.
- 10) Should Support IPv6 functions such as Management over IPv6, IPv6 routing protocols, IPv6 tunneling, firewall and UTM for IPv6 traffic, NAT46, NAT64, IPv6 IPSEC VPN
- 11) Should support IPv4 and IPv6 Rate based DOS protection with threshold settings against TCP Syn flood, TCP/UDP/ port scan, ICMP sweep, TCP/UDP/ SCTP/ICMP session flooding (source/destination)
- 12) Device should support Static routing, RIP, OSPF, BGP, IS-IS, RIPv3, OSPFv3 and BGP4+

- 13) Support for authentication for Users and Firewall Administrators (Local and Remote – RADIUS, LDAP & TACACS+)
- 14) Support for Native Windows Active Directory and Novell e-Directory Integration.
- 15) The device should have IPS protection for 6000+ signatures.
- 16) Should Identify and control over 2500+ applications (ie Application control feature)
- 17) Gateway AV should be supported for real-time detection of viruses and malicious code for HTTP,HTTPS, FTP, SMTP, SMTPS, POP3, POP3S, IMAP, IMAPS, IM and SMB.
- 18) Should support Gateway Data Loss Prevention (DLP) feature for popular protocols like HTTP, HTTPS, FTP, POP3, IMAP, SMTP, POP3S, IMAPS, SMTPS with Document Fingerprinting.
- 19) OEM should be having the following certifications/Ratings
  - a) FIPS-140-2 for Client VPN software.
  - b) OS should be “IPv6 Phase II Ready” certified
  - c) Firewall module should be ICSA Labs and EAL 4 certified
  - d) VPN should be ICSA Labs certified for both IPsec and SSL-TLS.
  - e) Network Intrusion Prevention System (NIPS) and should be ICSA Labs certified.
  - f) Antivirus should ICSA Labs and VB100 certified.
  - g) OEM should be having "Recommended" rating in NSS Labs 2012/2013 network intrusion prevention testing, Firewall testing and Next Generation Firewall testing.
  - h) OEM should be rated as Leader or Challenger in the Gartner magic quadrant for Enterprise Firewall and UTM.
- 20) The Firewall should be having 30 GB on box storage for logging and reporting.

**II. Core switch (24 port, stackable, Layer 3) - 1 No.**

Needed Features of Core Switch

- 1) The switch should support a minimum of 24 10/100/1000 Mbps RJ45 Ports.
- 2) The Switch should support four 1G/10 G Single mode optical fiber transceiver.
- 3) The switch should have memory size of min 64MB flash size and min 512MB DRAM
- 4) The Switch should support stacking and virtual chassis functionality.
- 5) The Switch should support Minimum Switching Capacity of 128 Gbps or better.
- 6) The Switch should support Minimum Forwarding Performance of 95 Mpps or better.
- 7) The Switch should support 16K MAC addresses and 4K VLANs with 4K VLAN IDs.
- 8) The switch should support 4k ARP entries
- 9) The switch should support Internal Hot Swappable Load Sharing Redundant Power Supply
- 10) The Switch Should Support IPv4 and IPv6 Static Routes.
- 11) The switches should be hardware ready to support IEEE 802.1AE MACsec and IEEE802.3az Energy Efficient Ethernet (EEE).
- 12) The switch should support RIPv1/v2, OSPFv2 and VRRP.
- 13) The switch should support IGMP v1/v2/v3 snooping and MLD snooping with support for at-least 8k IGMP Groups.

- 14) The switch support 8 units per stack and a stacking bandwidth of 40 Gbps per switch.
- 15) It should support a maximum of 253 Spanning trees.
- 16) The switch should provide maximum static routes of 12000(Ipv4) and 1070(IPv6).
- 17) The Switch should support Industry Standard Command Line Interface (CLI).
- 18) The switch should have 3 year warranty from the manufacturer.

**III. Access switch (24 port, stackable, Layer2) - 2 Nos.**

Needed Features of access switch

- 1) The switch should support a minimum of 24 10/100/1000 Mbps RJ45 Ports.
- 2) The switch should support two 1G single mode optical fiber transceiver.
- 3) The Switch should support Minimum Switching Capacity of 56 Gbps or better.
- 4) The Switch should support Minimum Forwarding Performance of 42 Mbps or better.
- 5) The Switch should support 8K MAC addresses and 4K VLANs with 4K VLAN IDs.
- 6) The switch should support 4 Units per stack with Stacking bandwidth of 4Gbps
- 7) The switch should support MLD snooping v1/v2, PVST,PVRST, Protocol VLAN, subnet vlan
- 8) The Switch should support Industry Standard Command Line Interface (CLI).
- 9) The switch should have 3 year warranty from the manufacturer.

Note : Core and Access switches should be from the same make and both Switches should have 3 year warranty from the manufacturer.

**TECHNICAL SPECIFICATIONS FOR NETWORK EQUIPMENTS****1. NETWORK FIREWALL (PERIMETER SECURITY DEVICE) (Sl. No. 1)**

Sl No.	Specification	Yes	No	Remarks/ Deviation
1	The Firewall must be appliance based			
2	Licensing: should be per device license for unlimited users for Firewall / VPN (IPSec & SSL) and other features. There should not be any user/IP/host based licenses – Please specify if the product does not follow the required licensing policy.			
3	The device should be having security functions like Firewall, VPN (IPSec & SSL), Application firewall, Gateway level antivirus, Antispam, Category based web filtering, Intrusion prevention system, Traffic shaping, etc..			
4	The platform must be capable of supporting a minimum of 12 interfaces with auto sensing 10/100/1000 capability			
5	The Firewall must support at least 1,500,000 concurrent connections and 4,000 new sessions per second			
6	The Firewall should be having minimum 3 Gbps throughput			
7	Should support 700 Mbps IPSec VPN throughput. Should support 150 Gateway-to-Gateway and 900 Client-to-Gateway IPSec VPN Tunnels			
8	The firewall should support a minimum of at least 270 Mbps of IPS & 60 Mbps Gateway Antivirus throughput			
9	Should support more than one ISP link with automatic ISP link failover as well as ISP link load sharing for outbound traffic.			
10	Should Support IPv6 functions such as Management over IPv6, IPv6 routing protocols, IPv6 tunneling, firewall and UTM for IPv6 traffic, NAT46, NAT64, IPv6 IPSEC VPN			
11	Should support IPv4 and IPv6 Rate based DOS protection with threshold settings against TCP Syn flood, TCP/UDP/ port scan, ICMP sweep, TCP/UDP/ SCTP/ICMP session flooding (source/destination)			
12	Device should support Static routing, RIP, OSPF,BGP, IS-IS, RIPng, OSPFv3 and BGP4+			
13	Support for authentication for Users and Firewall Administrators (Local and Remote – RADIUS, LDAP & TACACS+)			
14	Support for Native Windows Active Directory and			

	Novell eDirectory Integration			
15	The device should have IPS protection for 6000+ signatures			
16	Should Identify and control over 2500+ applications (ie Application control feature)			
17	Gateway AV should be supported for real-time detection of viruses and malicious code for HTTP,HTTPS, FTP, SMTP, SMTPS, POP3, POP3S, IMAP, IMAPS, IM and SMB			
18	Should support Gateway Data Loss Prevention (DLP) feature for popular protocols like HTTP, HTTPS, FTP, POP3, IMAP, SMTP, POP3S, IMAPS, SMTPS with Document Fingerprinting.			
19	OEM should be having the following certifications/Ratings			
	a. FIPS-140-2 for Client VPN software			
	b. OS should be "IPv6 Phase II Ready" certified			
	c. Firewall module should be ICSA Labs and EAL 4 certified			
	d. VPN should be ICSA Labs certified for both IPsec and SSL-TLS			
	e. Network Intrusion Prevention System (NIPS) and should be ICSA Labs certified.			
	f. Antivirus should ICSA Labs and VB100 certified			
	g. OEM should be having "Recommended" rating in NSS Labs 2012/2013 network intrusion prevention testing, Firewall testing and Next Generation Firewall testing.			
	h. OEM should be rated as Leader or Challenger in the Gartner magic quadrant for Enterprise Firewall and UTM			
20	The Firewall should be having 30 GB on box storage for logging and reporting			

## 2. MANAGEABLE SWITCH

Sl No.	Specification	Yes	No	Remarks/ Deviation
(1)	Whether both switches are from single manufacturer			
<b>Needed Features of Core Switch (Sl.No.2)</b>				
1	The switch should support a minimum of 24 10/100/1000 Mbps RJ45 Ports.			
2	The Switch Should support four 1G/10 G Single mode optical fiber transceiver.			
3	The switch should have memory size of min 64MB flash size and min 512MB DRAM			
4	The Switch should support stacking and virtual chassis functionality.			
5	The Switch should support Minimum Switching Capacity of 128 Gbps.			
6	The Switch should support Minimum Forwarding Performance of 95 Mpps.			
7	The Switch should support 16K MAC addresses			



	and 4K VLANs with 4K VLAN IDs.			
8	The switch should support 4k ARP entries			
9	The switch should support Internal Hot Swapable Load Sharing Redundant Power Supply			
10	The Switch Should Support IPv4 and IPv6 Static Routes,			
11	The switches should be hardware ready to support IEEE 802.1AE MACsec and IEEE802.3az Energy Efficient Ethernet (EEE)			
12	The switch should support RIPv1/v2, OSPFv2 and VRRP			
13	The switch should support IGMP v1/v2/v3 snooping and MLD snooping with support for at-least 8k IGMP Groups			
14	The switch support 8 units per stack and a stacking bandwidth of 40 Gbps per switch			
15	It should support an maximum of 253 Spanning trees			
16	The switch should provide maximum static routes of 12000(Ipv4) and 1070(IPv6)			
17	The Switch should support Industry Standard Command Line Interface (CLI).			
18	The switch should have 3 year warranty from the manufacturer.			

<b>Needed Features of Access Switch (Sl.No.3)</b>				
1	The switch should support a minimum of 24 10/100/1000 Mbps RJ45 Ports.			
2	The switch should support two 1G single mode optical fiber transceiver.			
3	The Switch should support Minimum Switching Capacity of 56 Gbps			
4	The Switch should support Minimum Forwarding Performance of 42 Mpps			
5	The Switch should support 8K MAC addresses and 4K VLANs with 4K VLAN IDs.			
6	The switch should support 4 Units per stack with Stacking bandwidth of 4Gbps			
7	The switch should support MLD snooping v1/v2, PVST,PVRST, Protocol VLAN, subnet vlan			
8	The Switch should support Industry Standard Command Line Interface (CLI).			
9	The switch should have 3 year warranty from the manufacturer.			

Signature of Bidder

Name & Designation:

Company Seal