NAGALAND STATE e GOVERNANCE SOCIETY (NSeGS)
DIRECTORATE OF INFORMATION TECHNOLOGY AND COMMUNICATION
(Below New Secretariat) Thizama Road
Nagaland : Kohima 797001

CORRIGENDUM

Dated Kohima, the 9th July 2010

No. NSeGS/ NagaSWAN-4/2008:: This Corrigendum consists of the modified clauses which have been included after an internal review of the RFP floated on 14/06/2010 and the Pre-Bid Meeting held on 24/06/2010. All the modified clauses with respect to earlier RFP are mentioned as enclosed.

Sd/- K.T. Sukhalu, IAS
C.E.O., NSeGS &
Secretary to the Govt. of Nagaland

Nagaland Sate Wide Area Network

Directorate of Information Technology & Communication
Kohima, Nagaland

Pre-bid Queries-Amendment

Sl No.	Clause No.	Pg No.	RFP Clause	Modifies / New Clause
1	6.3	25	Procurement of Hardware and Equipments • The bidder should preferably quote the sub-systems of following main categories of NagaSWAN from the same OEM: • Network (All Router, Switches, Firewall, IPS)	**Amended To:** The networking components like Routers and Switches should be from one single OEM. However, the bidder have the option of quoting products of other OEMs for remaining components.
2	7.1 Item No. 1 – Core Router:	38	2x10/100/1000 Mbps (Support for upto 1G)	**Amended To:** 2 x Gigabit Ethernet LAN ports on two different cards
3	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	38	Channelized STM-1Ports Upgradeable	**Amended To:** Channelized STM-1Ports Upgradeable to 2 Ports
4	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	38	2 (Single Port STM-1 Card)	**Amended To:** 2 X Single Port STM-1 Card
5	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	38	Tunneling & Encryption -> IP tunneling and IPSec 3DES/AES VPN for configuration of VPN tunnels.	**Amended To:** Support for Tunneling & Encryption -> IP tunneling and IPSec 3DES/AES VPN for configuration of VPN tunnels
6	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	38	Backplane -> Minimum of 20Gbps (Full Duplex)	**Amended To:** Backplane -> Minimum of 5 Gbps (Full Duplex) and 10 Mpps of packet throughput for 64 byte packet size
7	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	38	QoS -> ToS, CoS, Queuing, prioritizing, DSCP, cRTP, LFI	**Amended To:** QoS -> ToS, CoS, Queuing, prioritizing, DSCP, cRTP / LFI

8	7.1.1 Item No. 1 .1 Core Router for State Head Quarter (SHQ)	39	MPLs mVPN (Multicast VPN), MPLS Class of Service (CoS), VRF-Aware Services (NAT, Support for FW, IPsec, Syslog,), Carrier Supporting Carrier (CsC), Inter-AS VPN, Support for IP forwarding Layer 2 and Layer 3 Multiprotocol Label, Diffserv QoS, MPLS traffic engineering, support Point-to-Point Ethernet, PPP transport over MPLS, MPLS Traffic – engineering fast reroute, support multiple MPLS application like MPLS L3 VPN, combined with MPLS Traffic – Engineering.	**Amended To:** MPLs mVPN (Multicast VPN), MPLS Class of Service (CoS), VRF-Aware Services (NAT, Support for FW, IPsec, Syslog,), Inter-AS VPN, Support for IP forwarding Layer 2 and Layer 3 Multiprotocol Label, Diffserv QoS, MPLS traffic engineering, support Point-to-Point Ethernet, PPP transport over MPLS, MPLS Traffic – engineering fast reroute, support multiple MPLS application like MPLS L3 VPN, combined with MPLS Traffic – Engineering.
9	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	Ethernet LAN Ports -> 2x10/100/1000 Mbps	**Amended To:** Ethernet LAN Ports required -> Minimum 2x10/100 Mbps
10	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	Back plane -> Minimum 675 Mbps	**Amended To:** Back plane -> Minimum 675 Mbps (full duplex) upgradeable to 2 Gbps
11	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	Tunneling & Encryption -> IP tunneling and IPSec 3DES/AES VPN for configuration of VPN tunnels.	**Amended To:** Support for Tunneling & Encryption -> IP tunneling and IPSec 3DES/AES VPN for configuration of VPN tunnels
12	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	External ISDN PRI required -> 2	**Amended To:** Internal / External ISDN PRI required -> 2
13	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	External ISDN PRI upgradeable -> 4	**Amended To:** Internal / External ISDN PRI required -> 4
14	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	41	Few other features desired: MPLs mVPN (Multicast VPN), MPLS Class of Service (CoS), VRF-Aware Services (NAT, Support for FW, IPsec, Syslog,), Carrier Supporting Carrier (CsC), Inter-AS VPN. Shouldsupport Diffserv QoS/MPLS CoS, support MPLS traffic	**Amended To:** MPLs mVPN (Multicast VPN), MPLS Class of Service (CoS), VRF-Aware Services (NAT, Support for FW, IPsec, Syslog,), Inter-AS VPN. Shouldsupport Diffserv QoS/MPLS CoS, support MPLS traffic

15	7.1.2 Item No. 1 .2 Core Router for District Head Quarter (DHQ)	42	Congestion Management: The router should have proper congestion management to eliminate Network congestion when the link is overloaded. Random Early Detection, Weighted Fair Queuing Selective Packet Discard based on IP precedence or DSCP, cRTP, LFI	**Amended To:** Congestion Management: The router should have proper congestion management to eliminate Network congestion when the link is overloaded. Random Early Detection, Weighted Fair Queuing Selective Packet Discard based on IP precedence or DSCP, cRTP / LFI
16	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	43	Ethernet LAN Ports -> 1x10/100/1000 Mbps	**Amended To:** Ethernet LAN Ports required -> Minimum 2x10/100 Mbps
17	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	43	External ISDN BRI required -> 2	**Amended To:** Internal / External ISDN BRI required -> 2
18	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	43	External ISDN BRI upgradeable -> 4	**Amended To:** Internal / External ISDN BRI required -> 4
19	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	43	RAM Required -> 128 Mb RAM Upgradeable -> 256 Mb	**No change**
20	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	43	Tunneling & Encryption -> IP tunneling and IP Sec 3DES/AES VPN for configuration of VPN tunnels.	**Amended To:** Support for Tunneling & Encryption -> IP tunneling and IPSec 3DES/AES VPN for configuration of VPN tunnels
21	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	45	Power 230 V AC 50 Hz Shall have support for Redundant Power supply	**No change**
22	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	47	The forwarding rate should be scalable minimum 250 Mpps The centralized VLAN Management shall be a desired feature	**No change**

23	7.1.3 Item No. 1 .3 Router for Block Head Quarter (BHQ)	44	Congestion Management: The router should have proper congestion management to eliminate Network congestion when the link is overloaded. Random Early Detection, Weighted Fair Queuing Selective Packet Discard based on IP precedence or DSCP, cRTP, LFI	**Amended To:** Congestion Management: The router should have proper congestion management to eliminate Network congestion when the link is overloaded. Random Early Detection, Weighted Fair Queuing Selective Packet Discard based on IP precedence or DSCP, cRTP / LFI
24	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	47	Switching engine the switch should have capability to support redundant Control Modules. The switching & routing performance claimed on the chassis should not degrade with failure of switching/routing engine module.	**Amended To:** Switching engine the switch should have capability to support redundant Control Modules. The switching & routing performance claimed on the chassis should not degrade with failure of switching/routing engine module.The distributed forwarding functionality required on all line card modules.
25	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	47	The firewall should support at least 750,000 concurrent connections	**Amended To:** The firewall should support at least 500,000 concurrent connections
26	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	48	Distance Vector Multicast Routing Protocol	**Amended To:** Distance Vector Multicast Routing Protocol or equivalent protocol
27	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	48	Protocol Support Shall support Routing protocols like RIP ver1 (RFC1058)&2 (RFC 1722 and 1723), OSPF ver2 (RFC2328), OSPF on demand (RFC1793), BGP4 (RFC1771)	**Amended To:** Protocol Support Shall support Routing protocols like RIP ver1 (RFC1058)&2 (RFC 1722 and 1723), OSPF ver2 (RFC2328), BGP4 (RFC1771)
28	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	49	PIM-SM (RFC2362) / PIM-DM, DVMRP	**Amended To:** PIM-SM (RFC2362) / PIM-DM
29	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	50	IEEE 802.1x support for MAC address authentication	**No change**

30	7.3.2 Item No. 3.2 Core Switch at Distritct Head Quarter (DHQ)	51	30 Gbps minimum forwarding bandwidth at Layer 2 and Layer 3 switching.	**No change**
31	7.3.2 Item No. 3.2 Core Switch at Distritct Head Quarter (DHQ)	51	32 Mpps min. of forwarding rate.	**No change**
32	7.3.1 Item No. 3.1 Core Switch at State Head Quarter (SHQ)	51	Multi-media support: Microsoft NetShow, White Pine CU-See Me, Real Networks RealAudio, H.323, SIP, RTSP application inspection support.	**Amended To:** Microsoft NetShow, White Pine CU-See Me, Real Networks RealAudio, H.323, SIP, RTSP application inspection support at hardware / application level
33	7.3.2 Item No. 3.2 Core Switch at Distritct Head Quarter (DHQ)	52	Secure Shell (SSH) Protocol, Kerberos, and Simple Network Management Protocol Version 3 (SNMPv3) to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.	**Amended To:** Secure Shell (SSH) Protocol, Kerberos or better encryption methodology, and Simple Network Management Protocol Version 3 (SNMPv3) to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.
34	7.3.3 Item No. 3.3 Switch at Block Head Quarter (BHQ)	53	Technical capability	**Added:** 24 ports 10/100 with support for 2 SFP 1 Gig Uplink
35	7.3.3 Item No. 3.3 Switch at Block Head Quarter (BHQ)	53	8 MB packet buffer memory architecture	**Deleted**
36	7.3.3 Item No. 3.3 Switch at Block Head Quarter (BHQ)	53	8 Gbps switching capacity	**No change**
37	7.3.3 Item No. 3.3 Switch at Block Head Quarter (BHQ)	53	4 Mpps forwarding performance	**No change**

38	7.3.3 Item No. 3.3 Switch at Block Head Quarter (BHQ)	53	Standards	**No change**
39	7.4.1 Item No. 4.1 Internet Router at State Head Quarter (SHQ)	56	Power 230 V AC 50 Hz	**Amended To:** Power 230 V AC 50 Hz Shall have support for Redundant Power supply
40	7.5 Item No. 5 – Firewall	57	throughput: minimum 1Gbps	**No change**
41	7.6 Item No. 6 – Intrusion Protection System (IPS)	58	IPS should have minimum Aggregate Throughput 1Gbps	**No change**
42	7.6 Item No. 6 – Intrusion Protection System (IPS)	58	IPS should have minimum Aggregate Throughput 1Gbps	**No change**
43	7.10 Item No. 10 – Network Management System (NMS)	74	NMS shall have out of the box tools for building MIB Application used for testing devices on multiple MIB parameters.	**Amended To:** NMS shall support the MIB parameters of the supplied networking components
44	7.12 Item No. 12 – IP EPABX	79	The system should be scalable to 4000 IP phones Soft switch would support for call processing and call-control centrally.	**No change**
45	7.21 Item No. 22 – 42 U Rack	96	Power distribution (50 points – 5Amp sockets)	**No change**
46	7.22 Item No. 23 – 15 U Rack	97	Depth mentioned as 800 mm	**No change**

47	9.6 bid Security (EMD)	110	a) Bidders shall submit, along with their Bids, Bid security or EMD of Rs 10 Lakhs in the form of a Demand Draft in favour of The CEO, NSeGS. EMD in any other form will not be valid.	**No change**
48	9.11 Submission of proposals	111	a) All the proposals will have to be submitted in hard bound form with all pages numbered.	**No change**
49	9.9 Performance Guarantee	111	Within 15 days of the issuance of the LoI the bidder shall furnish revolving Performance Guarantee, as provided, to GoN for an amount equal to 10% of the arithmetic sum of 5 years of the Guaranteed Revenue according to the Agreement.	**No change**
50	9.18 e	113	The bidder (all members of the Consortium together) must have successfully completed at least any one of the following: □ 1 project of minimum 100 WAN nodes □ 2 projects of minimum 75 WAN nodes □ 3 projects of minimum 50 WAN nodes	**No change**
51	9.18 g	113	The bidder (all members of the consortium together) must have completed at least one network involving converged services (Voice, Video, Data) with minimum of 25 nodes	**No change**
52	9.18 g	113	The bidder (all members of the consortium together) must have completed at least one network involving converged services (Voice, Video, Data) with minimum of 25 nodes	**No change**