

Registered Office- C-9, 8th floor, Reserve Bank of India premises, Bandra-Kurla Complex, Bandra-East, Mumbai-400 051

Corrigendum - 1

Date: 6th Sep, 2012

This is with reference to NPCI's RFP#2012-13/0011 dated 17th August, 2012 for Expansion of NPCINET. The prospective bidders may please note that:

After discussion in pre-bid meeting held on 4th Sep. 2012 at Goregaon office, we need to amend/add the below mentioned clauses in the aforesaid RFP.

A) Revised specification of Member Bank Switch section 10

SI No	Sub Serial No.	Technical Specifications	Bidder Response	
			Available	Remarks
		Equipment Specifications	Yes / No	If any
10.5		MEMBER BANK SWITCH (CTS) each location 2No's for redundancy		
		Quantity- As per Bill of material		
	A	General		
	10.5.1	The switch should have minimum 10 x 10/100/1000 Ethernet Ports		
	B	Performance		
	10.5.2	Minimum of 10 Gbps switching fabric and minimum forwarding bandwidth - 10 Gbps		
	10.5.3	Support 4000 MAC addresses		
	C	Layer-2 Features		
	10.5.4	IEEE 802.1Q VLAN encapsulation. Upto 255 VLANs should be supported.		
	10.5.5	Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.		
	10.5.6	802.1d, 802.1s, 802.1w, 802.3ad		
	10.5.7	Support for faster Layer 2 convergence techniques like Spanning- tree Port Fast, Port Fast guard, Uplink Fast & Backbone Fast or equivalent.		
	10.5.8	Spanning-tree root guard to prevent other edge switches becoming the root bridge.		
	10.5.9	Port Aggregation Protocol (PAgP) / Link Aggregation Protocol (LACP) or equivalent		
	10.5.10	Support for Detection & prevention of Unidirectional Links.		

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		Equipment Specifications	Yes / No	If any
	10.5.11	Support for adjacent device discovery with details like platform, IP Address, Link connected through etc.		
	10.5.12	Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.		
	D	Network security features		
	10.5.13	IEEE 802.1x to allow dynamic, port-based security, providing user authentication.		
	10.5.14	Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.		
	10.5.15	SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.		
	10.5.16	Bidirectional data support on the Switched Port Analyzer (SPAN) port to allow the intrusion detection system (IDS) to take action when an intruder is detected.		
	10.5.17	MAC address notification to allow administrators to be notified of users added to or removed from the network.		
	10.5.18	Support for DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses.		
	10.5.19	Port security to secure the access to an access or trunk port based on MAC address.		
	10.5.20	Multilevel security on console access to prevent unauthorized users from altering the switch configuration.		
	10.5.21	Up to 350 ACL entries should be supported.		
	E	Quality of Service (QoS) & Control		
	10.5.22	Standard 802.1p CoS and DSCP		
	10.5.23	Four egress queues per port to enable differentiated management of up to four traffic types.		
	10.5.24	Strict priority queuing mechanisms		
	10.5.25	There should not be any performance penalty for highly granular QoS functions.		

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		Equipment Specifications	Available	Remarks
			Yes / No	If any
	F	Management		
	10.5.26	Command Line Interface (CLI) support for configuration & troubleshooting purposes.		
	10.5.27	For enhanced traffic management, monitoring, and analysis, upto four RMON groups (history, statistics, alarms, and events) must be supported. All RMON groups must be supported through the SPAN port, which permits traffic monitoring of a single port, a group of ports, or the entire stack from a single network analyzer or RMON probe.		
	10.5.28	Layer 2 trace route or equivalent to ease troubleshooting by identifying the physical path that a packet takes from source to destination.		
	10.5.29	Domain Name System (DNS) support to provide IP address resolution with user-defined device names.		
	10.5.30	Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.		
	10.5.31	Network Timing Protocol (NTP) to provide an accurate and consistent timestamp to all intranet switches.		
	10.5.32	SNMP v1, v2c, and v3 and Telnet interface support delivers comprehensive in-band management, and a CLI-based management console provides detailed out-of-band management.		

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B) Revised Table- 3B Annexure L, Commercial proposal format on Page 92 of 112

TABLE 3B: Pan India Connectivity Charges for CTS and Other Applications											
Sr No	Link Source – Destination	No. of Links (Q)	Bandwidth Requirement	One Time Charges Setup and Configuration for quantity as per column Q d1 = (c1 of Table 3A X Q)	Annual Recurring Charges (1st Year) which includes bandwidth and Last mile rentals for quantity as per column Q d2= (c2 of Table 3A X Q)	Total Cost (First Year) (in INR) – D1 = d1 + d2	Annual Recurring Charges (2nd Year) which includes bandwidth and Last mile rentals for quantity as per column Q (in INR) – D2 = C2 of Table 3A X Q	Annual Recurring Charges (3rd Year) which includes bandwidth and Last mile rentals for quantity as per column Q (in INR) – D3 = C3 of Table 3A X Q	Annual Recurring Charges (4th Year) which includes bandwidth and Last mile rentals for quantity as per column Q (in INR) – D4 = C4 of Table 3A X Q	Annual Recurring Charges (5th Year) which includes bandwidth and Last mile rentals for quantity as per column Q (in INR) – D5 = C5 of Table 3A X Q	Total (D1+ D 2+ D 3+ D 4+ D 5)
II	Table 3 B: Member Bank Pan India Connectivity (MPLS) for CTS and Other Applications . The quantities are indicative. The order for actual quantities will be released as per NPCI requirements. The price should be quoted irrespective of the last mile distance from bank and SP POP.										
1	Bank Locations to NPCI Data Centers and NPCI Offices	40	2								
2	Bank Locations to NPCI Data Centers and NPCI Offices	30	8								
3	Bank Locations to NPCI Data Centers and NPCI Offices	15	16								
4	Bank Locations to NPCI Data Centers and NPCI Offices	10	32								
5	Bank Locations to NPCI Data Centers and NPCI Offices	2	50								
6	Bank Locations to NPCI Data Centers and NPCI Offices	1	100								

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7	Bank Locations to NPCI Data Centers and NPCI Offices	1	150								
8	Bank Locations to NPCI Data Centers and NPCI Offices	1	200								
Table 3 B: Summary of Connectivity Total										Total (Z)	

All other terms and conditions of aforesaid RFP remains unchanged.

MD & CHIEF EXECUTIVE OFFICER
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