

Minutes of the Pre-Bid Meeting

Date & Venue : 20.06.2018 at Conference Room, 03 MAR, New Town, Kolkata-700156

The following Officials of NKDA and Agencies were present in the Pre-Bid Meeting

<u>NKDA Official</u>	<u>Agencies</u>
1. Administrative Officer, NKDA	1. SIMS Consultant.
2. System Manager, NKDA	2. Surestep Ventures Pvt. Ltd.

At the onset, Administrative Officer, NKDA welcomed all the Agencies and initiated the discussion.

He briefly discussed the scope of work -- **“Implementation and maintenance of NAS solution for New Town Kolkata Development Authority located at 03, MAR , New Town , Kolkata –700 156”**. After detailed discussions, the following decision has been taken by the Authority.

- (1) Payment terms is unchanged.
- (2) Some changes is made in the Technical Specification. Indicative Configuration of NAS solutions are mentioned here under. Bidder may quote for same or similar specification.

Sr.No	Services	Configuration
1	CPU	AMD R-Series RX-421BD quad-core 2.1 GHz processor, burst up to 3.4 GHz or Higher
2	Hardware Encryption Acceleration	Yes, AES-NI
	Graphics	Embedded Radeon™ R7 Graphics Processor or equivalent
5	Memory	16GB DDR4 (2 x 8GB) or Higher
6	Memory Slot	4 x SODIMM DDR4 (For dual- or quad-DIMM configurations, you must use a pair of identical DDR4 modules.)
	Flash Memory	512MB DOM or Higher
7	Hard Disk Drive	8 Bay or Higher Details : 3X4 TB 7200 RPM, 6 GBPS ,2 M MTBF Enterprise HDD + 5 BAY Open
	M.2 SSD Slot	2 x 2280/2260 SATA 6Gb/s -Slot
12	LAN Port	4 x Gigabit RJ45 LAN ports
13	PCIe Slot	2 x PCIe Gen 3 (x4), one slot is pre-installed with a dual-port USB 3.1 Type-A card
	LCD Panel	Mono-LCD display with backlight, Enter and Select buttons for configuration
14	USB	2 x USB 3.1 port, and 4 x USB 3.0
16	HDMI	2, up to 3840 x 2160 @ 30Hz resolution
	LED Indicator	Status/Power, USB, LAN, Drive 1-8, M.2 SSD 1-2
17	Button	Power/Status, USB one-touch-backup, Reset
18	IR Receiver	Yes.
19	Others	Kensington security slot, system maintenance port
	Form Factor	Tower

	Operating Temperature	0 ~ 40°C
	Relative Humidity	5~95% RH non-condensing, wet bulb: 27°C
	Power	250W, 100-240V AC, 50-60Hz, 3.5A
	Power Consumption(W)	HDD standby: 36.43W
		In operation: 70.26W
		(with 8 x 2TB HDDs installed)
22	Fan	yes
23	RAID Feature	<ol style="list-style-type: none"> 1. Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare, 6 + Hot Spare, 10 + Hot Spare 2. Global Hot Spare 3. Online RAID Capacity Expansion & Online RAID Level Migration 4. Bad Block Scan & Hard Drive S.M.A.R.T. 5. RAID Recovery 6. Bitmap Support
24	iSCSI (IP SAN)	<ol style="list-style-type: none"> 1. iSCSI Target with Multiple LUNS per Target (Up to 256 Targets/LUNs Combined) 2. LUN Mapping & Masking 3. Online LUN Capacity Expansion 4. Supports SPC-3 Persistent Reservation 5. Supports MPIO & MC/S 6. iSCSI LUN Backup, One-time Snapshot, and Restore 7. iSCSI Connection and Management 8. Stack Chaining Master: Up to 8 Virtual Disk Drives (via iSCSI Initiator)
25	Supported Clients	<ol style="list-style-type: none"> 1. Windows XP, Vista, Windows 7/8 (32/64-bit), Windows 8 (32/64-bit), Windows Server 2003/2008 R2/201 2. Apple Mac OS X 3. Linux & UNIX
26	Power Management	<ol style="list-style-type: none"> 1. Wake on LAN 2. Internal Hard Drive Standby Mode 3. Scheduled Power on/off (Max 15 Settings) 4. Automatic Power on after Power Recovery 5. USB and Network UPS Support with SNMP Management
27	Domain Authentication Integration	<ol style="list-style-type: none"> 1. Microsoft Active Directory (AD) 2. LDAP Server 3. LDAP Client 4. Domain Users Login via CIFS/SMB, AFP, FTP, and Web File Manager
28	Networking	<ol style="list-style-type: none"> 1. TCP/IP (IPv4 & IPv6: Dual Stack) 2. Dual Gigabit NICs with Jumbo Frame ◦ Failover <ul style="list-style-type: none"> ◦ Multi-IP Settings ◦ Port Trunking/NIC Teaming (Modes: Balance-RR, Active Backup, Balance XOR, Broadcast, IEEE 802.3ad/Link Aggregation, Balance-TLB and Balance-ALB) 3. Service Binding based on Network Interfaces 4. Virtual LAN (VLAN) 5. Proxy Client 6. DHCP Client, DHCP Server 7. Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC 8. TFTP Server with PXE Booting 9. UPnP & Bonjour Discovery 10. USB Wi-Fi Adapter Support

31	Backup Solution	1.Real-time Remote Replication (RTRR) 2. Works as Both RTRR Server & Client with Bandwith Control 3. Real-time & Scheduled Backup 4. Encryption, Compression, File Filter, and Transfer Rate Limitation 5. Block-level Remote Replication 6. Works as Both Rsync Server & Client with Bandwidth Control 7. Encrypted Replication. 8. Data Backup to Multiple External Storage Devices 9. Data Backup to Cloud Storage (Amazon S3, ElephantDrive, Symform, and Google Drive)
32	Security	1. IP Filter and Policy-based Automatic IP Blocking 2. Network Access Protection with Auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP 3. Encrypted Access: HTTPS, FTP with SSL/TLS (Explicit), SSH/SFTP (admin only), Encrypted Remote Replication 4. CIFS Host Access Control for Shared Folders 5. Antivirus Protection 6. FIPS 140-2 Validated AES 256-bit Volume-based Data Encryption** 7. AES 256-bit External Drive Encryption* 8. Importable SSL Certificate 9. Instant Alert via E-mail, SMS, Instant Messaging (Windows Live), Beep, and LCD Panel
34	Antivirus	1. Protection against Viruses, Trojans, and Other Threats 2. Free Virus Databases Update on Manual or Scheduled Basis 3. Multiple Scan Tasks (Max: 64, Concurrent: 5) with Custom Folder Selection and Scheduled Scanning 4. Email Notification upon Task Completion or Virus Detection 5. Quarantines or Deletes Infected Files
35	RADIUS Server	1. Centralized Account Management and Authentication for Network Access 2. Supports PAP, EAP-TLS/PAP, and EAPTTLS/PAP Authentication
36	FTP Server	1. FTP over SSL/TLS (Explicit) 2. Max No. of Concurrent Connections: 256 3. FXP Supported 4. Passive FTP Port Range Control 5. FTP Bandwidth & Connection Control 6. Unicode Support
37	Backup Server	1. Remote Replication Server 2. Real-time Remote Replication to another NAS or FTP Server 3. Windows Client Backup Application.

The Meeting was successfully ended by the Administrative Officer, NKDA


Administrative Officer
New Town Kolkata Development Authority

A.M.

ATTENDANCE SHEET

Pre-Bid Meeting on : Implementation and maintenance of NAS solution for New Town Kolkata Development Authority located at 03, MAR, New Town, Kolkata -700 156

Date & Venue: 20.06.2018 at the Conference Room of 03, M.A.R, NKDA

Sl. No	Name	Organisation	Mobile Number	Signature
1	SIMS Consultants			
2	M. Sen	SIMS consultants	9830280967	M. Sen.
3	DEBMALYA DEY	SURESTEP VENTURES PVT. LTD.	9830194767	D. Dey
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