

Request For Budgetary Estimate of DC High end equipment and associated work at Hospital in Delhi

HSCC/Delhi /Phase 3/2025

Date-10/12/2025

Supply, installation, testing and commissioning of DC high end equipment and associated work at Hospital campus:

Technical Specifications and Bill of Quantity proposed for above are enclosed herewith. It is requested to submit the Budgetary Quotation of the same inclusive of all taxes & duties.

The quotation should be on Company Letter Head with sign and stamp as per the BOQ format enclosed and should be submitted in Hard Copy only in a sealed envelope within 5 days of issue of this Notice at the following address i.e. by 15/12/2025 till 01:00 pm:

IT Department
HSCC (India) Ltd.,
E-6(A), Sector-1,
Noida (U.P.) - 201301.

IT Department,
HSCC (India) Ltd.

Note-This is not tender & no work shall be awarded as per this advertisement, this is just a request for budgetary quotation for estimation purpose only.

Server requirement should be as below-The minimum server hardware requirements specify a 2U chassis with rails that must be supplied with a Redundant Platinum 1200W Output Power Supply. The server is to be equipped with a single Intel® Xeon® Gold Processor featuring 12 cores and the Intel® C621 Chipset. Memory is set at 1 x 32 GB DDR4-2600 ECC Register or higher, utilizing one of the total 8 DIMM slots available

Technical Specification for Network Access Controller (NAC) -

S. No.	Specification / Requirement
1	The solution should provide an easy-to-use BYOD ready granular secure access control solution that is context aware, identity enabled, location and device based. The proposed solution must combine Authentication, Authorization, and Accounting (AAA); Posture; Profiling; and Guest Access management services on to a single platform with a minimum endpoint footprint and supports the ability to be managed from a single management console.
2	OEM must have local in-country Renewals, L1, L2, L3 and Professional Services Support.
3	The OEM must have their R&D center in India developing NAC software locally.
4	It must be an out-of-band NAC solution.
5	The solution should support centralized deployment.
6	Solution must have built-in TACACS+ and Radius along with Posturing, Captive Portal and Visibility capabilities.
7	Solution can be provided with either Perpetual or Subscription Licenses, supporting minimum device as per BOQ for device Profiling and TACACS+ and as per BOQ devices for NAC including Device Posturing, Guest Access, Radius, Captive Portal, etc. from Day 1 with 3 years warranty.
8	The solution must be deployed with 802.1x authentication for managed endpoints to provide Zero Trust Security with Pre- and Post-Admission Control. The solution should not be dependent on ARP or SNMP enforcement approach, but must use 802.1x to pre- and post-admission control with Zero Trust security.
9	The NAC solution must be vendor agnostic and support heterogeneous environment. It should be able to integration with wireless and wired network devices.
10	"The solution should be able to evaluate endpoints connect behind an Managed/unmanaged switches. This capability would be required to support customer's ecosystem. Until user/device is authenticated and system's security posture is evaluated, access to the network should not be provided from endpoints which are connected to unmanaged switch.
11	If Computer is connected to the IP Phone, NAC should authenticate both IP phone and computer before granting network access.
12	The proposed NAC solution should be able to detect both new and existing endpoints and categorizes them based upon the type of endpoint (Ex: Windows, Printer, Network Device, IP Camera, Android, iPad, etc.)
13	The solution should have a capability to detect and profile IoT and IIoT devices.
14	The proposed NAC solution must support network-based profiling by targeting specific endpoints (based on policy) for specific attribute device scans, resulting in higher accuracy and comprehensive visibility of what is on your network
15	The proposed solution should support profiling devices automatically based on their Category, OS, MAC address, etc.
16	The proposed NAC solution should provide support for discovery, profiling, policy-based placement, and monitoring of endpoint devices on the network all within the same virtual appliance

17	The proposed NAC solution must support Profiling via Passive and Active Collectors using various methods like SNMP, DHCP fingerprinting, HTTP-agent, NMAP, WMI, SSH, TCP-IP, etc.
18	The NAC solution should be able to apply restrictions directly on the user's endpoint through persistent NAC agent ensuring communication with other network devices is restricted until user successfully completes the authentication and compliance check.
19	The proposed NAC solution must support automated provisioning and deployment clients remotely
20	The agent should support Credential provider capabilities to allow new users to successfully authentication with the AD server through NAC before windows logon in 802.1x secure environment.
21	The solution should allow RDP access to endpoint connected on 802.1x secure port/network.
22	Persistent agent must not require administrative rights for agent upgrades.
23	The solution should have built-in Radius server with Authentication, Authorization and Accounting capabilities available out-of-the-box without any dependency on external server.
24	The built-in local Radius server should support 802.1x for user and device authentication.
25	Solution should support TACACS+ as a built-in capability to simplify device administration and enhance security through flexible, granular control of access to network devices
<i>S.No.</i>	<i>CABLING FOR DATA SYSTEM</i>
	<i>Category 6A UTP LSZH Cable, 4 Pair</i>
<i>1.</i>	<i>Category 6A Unshielded Twisted Pair 4 pair cable shall be compliant with TIA/EIA-568-C.2 channel performance</i>
<i>2.</i>	<i>Category 6A UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.</i>
<i>3.</i>	<i>23 AWG solid copper conductor with a frequency of 500 MHz</i>
<i>4.</i>	<i>All Category 6A cables shall meet or exceed the following characteristics:</i>
<i>5.</i>	<i>Mechanical Characteristics</i>
<i>6.</i>	<i>Construction</i>
<i>7.</i>	<i>4 twisted pairs separated by internal X shaped, 4 channel, full separator.</i>
<i>8.</i>	<i>23 AWG Conductor dia</i>
<i>9.</i>	<i>Insulation = High Density Polyethylene</i>
<i>10.</i>	<i>Conductor = Bare Copper</i>
<i>11.</i>	<i>Jacket=LSZH</i>
<i>12.</i>	<i>Jacket colour=Blue</i>
<i>13.</i>	<i>Cable Diameter =7.6mm ± 0.3mm</i>
<i>14.</i>	<i>Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801</i>
<i>15.</i>	<i>Cat6A Patch Panel</i>
<i>16.</i>	<i>Min. Required Specification</i>
<i>17.</i>	<i>Patch Panel made of SPCC in 24 port configurations.</i>
<i>18.</i>	<i>Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.</i>
<i>19.</i>	<i>Have port identification numbers on the front of the panel.</i>

20.	<i>Should have self adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel</i>
21.	<i>IDC: Suitable for 22-24 AWG stranded and solid wire compatible with both 110 & Krone punch down tools</i>
22.	<i>6 Core Fiber Optic Cable, Armoured, SM LSZH</i>
23.	<i>The 6 core armored fiber cable type is a Matched Cladding Single Mode</i>
24.	<i>Fiber dual coated with acrylate coating with LSZH sheath,</i>
25.	<i>The fiber is optimized for operation at 1310 nm and at 1550 nm.</i>
26.	<i>Should fulfill the requirements of:</i>
27.	<i>· IEC 60793-1/60794-1-2</i>
28.	<i>· ISO 11801</i>
29.	<i>· ITU-T REC G.652.D</i>
30.	<i>Nominal mode field diameter: 9.2 μm</i>
31.	<i>Mode field diameter tolerance: $\pm 4\%$</i>
32.	<i>Cladding diameter: 125 μm</i>
33.	<i>Cladding diameter tolerance : $\pm 1 \mu$m</i>
34.	<i>Mode field concentricity error : < 1 μm</i>
35.	<i>Cladding non-circularity: < 2 %</i>
36.	<i>Germanium doped core with no phosphorus i.e. reduced tendency for hydrogen degradation.: CORE</i>
37.	<i>UV-curable dual layer acrylate coating, which ensures excellent micro bending and abrasion resistance.: COATING</i>
38.	<i>Stripping force after conditioning at 23 ± 5 °C at 40 - 60 % RH for 24 h.Min.: 1.0 N and Max.: 3.5 N</i>
39.	<i>Stripping force after ageing in water at 70 ± 5 °C for 168 h. Min.: 1.0 N and Max.: 3.5 N</i>
40.	<i>Attenuation (of cable with fibers):@ 1310 nm: ≤ 0.36 dB/km, In the range 1285-1330 nm: ≤ 0.40dB/km, @1550 nm: ≤ 0.22 dB/km</i>
41.	<i>Cut-off wavelength : High limit: 1330 nm, Low limit : 1180 nm</i>
42.	<i>Cut-off wavelength :High limit: 1260 nm,</i>
43.	<i>Loss increase at 1550 nm for 100 turns of fiber loosely wound with a 37.5 mm radius: Max. : 0.1 dB</i>
44.	<i>Zero dispersion wavelength: 1310 nm</i>
45.	<i>Zero-dispersion slope: Max.: 0.092 ps/(nm² • km)</i>
46.	<i>Chromatic dispersion coefficient:</i>
47.	<i>In 1285 nm - 1330 nm interval: Max. : 3.5ps/km • nm</i>
48.	<i>In 1270 nm - 1340 nm interval Max. : 6 ps/km • nm</i>
49.	<i>At 1550 nm :Max.: 18 ps/km • nm</i>
50.	<i>Polarisation Mode Dispersion (PMD): Max.: ≤ 0.2 ps/km</i>
51.	<i>In homogeneity of OTDR trace for any two 1000 meter fiber lengths Max.: 0.1 dB/km</i>
52.	<i>Proof test level : 1%</i>
53.	<i>6/12/24 Port LIU loaded with LC Adapter and Pigtail.</i>
54.	<i>6/12/24 port Loaded LIU accommodate LC Single mode adapters.</i>
55.	<i>Cold steel base material with powder coating. Aluminum top and front cover for light mounting</i>
56.	<i>can manage both splices and terminations</i>
57.	<i>should have fiber magic sticker provision inside for 900um tight buffered fiber storing</i>
58.	<i>Accessory kit consists of cable ties, mounting ear screw earthing.</i>
59.	<i>Front-Mounted Cable Saddles for jumper management</i>

60.	<i>Removable Top & Front cover for better access to interior of LIU</i>
61.	<i>Rubber grommet allow for pre-terminated fiber trunk installation, protects cable and minimizes dust build-up</i>
62.	<i>Adapter panel - Cold steel</i>
63.	<i>Adapters should have compact design & high precision.</i>

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Supply, installation, testing and commissioning of antivirus for server hardware as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	2		
2	Supply, installation, testing and commissioning of 12 SM LIU as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos	31		
3	Supply, installation, testing and commissioning of SM Patchchord as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	78		
4	Testing of OLTS report as per the for all OFC connections mentioned and as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lum psu m	1		
5	Supply, installation, testing and commissioning of 1 KVA UPS System for all IT Racks as per the technical specification mentioned and as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	25		
6	Supply, installation, testing and Commissioning of network access controller for authentication as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
7	Supply, installation, testing and commissioning of Upgradation/expansion of twenty data points as per the requirement with I/o, faceplate, gang box, patchchords and all required equipment to make it functional as per the requirement & complete in all respect and as directed to the satisfaction of engineer	Lot	4		
8	configuration of all of network for authentication as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lot	1		
9	Testing of Pentascanning for all the data points as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lum psu m	1		
10	Supply, installation, testing and commissioning of 24 SM LIU as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos	12		

11	Configuration of all network as per the requirement for upgradation of the Network	Lot	1		
12	Supply, installation, testing and commissioning of SM Pigtail with detection of end point as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	500		
13	Supply, installation, testing and commissioning of server hardware as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	2		
14	Supply, installation, testing and Commissioning of 19 " Rack 27 U Floor/Wall Mount Rack with all standard accessories with all standard accessories with mounted DC equipments to make all connections that include Cable Manager, Power Bar with socket setc.as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	2		
15	Supply, installation, testing and commissioning of OS for server hardware as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	2		
16	Supply, installation, testing and Commissioning of 19" Rack 42U Wall Mount Rack with all standard accessories with mounted DC equipments to make all connections functional as per the requirement that include Cable Manager, Power Bar with sockets etc. as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos	2		
Total					