

Request For Budgetary Estimate of DC and associated work at Medical College & Hospitals in Delhi

HSCC/Delhi /Phase 1/2025

Date-10/12/2025

Supply, installation, testing and commissioning of DC setup and associated work at Medical College & 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 and any other charges.

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 1:00 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, just request for budgetary estimation only. No work will be awarded based on this request for budgetary quotation.

Data Centre Upgradation Tender: Comprehensive Technical Specifications

I. Minimum Requirements for Data Centre Upgradation Work.

The minimum requirement for the Data Centre upgradation includes several key components and civil works. For Access Control, two units of Standalone Biometric cum card readers with Lock and Push Button are required, which must integrate with the existing fire system for auto door release.

The RAISED/FALSE/ACCESS FLOOR system involves 188 SFT of laminated panels with edge support rigid grid under structure, providing a height of 300mm in the server area. The panels, measuring 600 x 600 x 35 mm in height, must be fully interchangeable within a specified layout.

S.No.	CABLING FOR DATA SYSTEM
	Category 6A UTP LSZH Cable, 4 Pair
1	Category 6A Unshielded Twisted Pair 4 pair cable shall be compliant with TIA/EIA-568-C.2 channel performance
2	Category 6A UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.
3	23 AWG solid copper conductor with a frequency of 500 MHz
4	All Category 6A cables shall meet or exceed the following characteristics:
5	Mechanical Characteristics
6	Construction
7	4 twisted pairs separated by internal X shaped, 4 channel, full separator.
8	23 AWG Conductor dia
9	Insulation = High Density Polyethylene
10	Conductor = Bare Copper
11	Jacket=LSZH
12	Jacket colour=Blue
13	Cable Diameter =7.6mm ± 0.3mm
14	Sequential meter marking =YES
15	Temperature Rating =(- 20 to +60 C)
16	Filler Required= Yes
17	Packing =305 Mtrs.
18	Low Frequency Electrical Paramere
19	CONDUCTOR RESISTANCE (DC)=93.8 OHMS/1000 MTR
20	RESISTANCE UNBALANCE =5%MAX
21	MUTUAL CAPACITANCE=5.6 nF/100 mtrs Max.
22	CAPACITANCE UNBALANCE PAIR/GROUND =330PF/100M MAX
23	NVP% =69%
24	Charcteristics IMPEDANCE =100±15%OHMS
25	Worst Case cable skew =45ns/100m
26	Generally confirming to EIA/TIA 568-C.2 and IEC/ISO 11801
2	Cat6A Patch Panel
	Min. Required Specification
1	Patch Panel made of SPCC in 24 port configurations.

2	Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.	
3	Have port identification numbers on the front of the panel.	
4	Should have self adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel	
5	IDC: Suitable for 22-24 AWG stranded and solid wire compatible with both 110 & Krone punch down tools	
6	Improved cable management with optional cable management bar	
7	The Cat-6A transmission performance is in compliance with the ANSI/TIA/EIA 568C.2 standard and ISO 11801	
8	Mechanical Characteristics: Plastic Housing: PBT+Glass Fiber, UL94V-0 rated	
9	Jack Connector: Operating Life: Minimum 750 insertion cycles	
10	Material: Phosher bronze with nickel plated	
11	Contact Plating: 50μ” Gold plated on plug contact area	
12	Contact Force: 20N max	
19	OEM should have Indian based operation at least for a period of 15+ years.	
4	Patch Cord Cat 6A	
	Characteristics:	
1	Cat6A patch cords are high quality four pair twisted stranded cable terminated with RJ45 modular plugs at both the ends	
2	Cat6A patch cord should meet the TIA/EIA 568C.2 and ISO/IEC 11801 standard	
3	Specification:	
4	Length	1/2/3 mtr
5	Conductor:	24 AWG, Multi-strands
6	Conductor Metal	Bare Copper
7	Insulation Material	HDPE
8	Material	LSZH
9	Color Code	Yellow
10	Heat Resistance	75°C
11	Modular Connector/Plug:	
12	Gold Plated	50U°
13	Contact Blade	Copper Alloy
14	Dielectric withstanding voltage	1000V DC/min, <0.5A
15	Insulation Resistance	>500M Ω, 1000V DC/min
16	OEM Should be International certification for the ISO 45001 Health and Safety Management System, ISO 9001 Quality Management System, ISO 14001 Environmental Management System,	
5	6 Core Fiber Optic Cable, Armoured, SM LSZH	
1	The 6 core armored fiber cable type is a Matched Cladding Single Mode	
2	Fiber dual coated with acrylate coating with LSZH sheath,	
3	The fiber is optimized for operation at 1310 nm and at 1550 nm.	
4	Should fulfill the requirements of:	
5	· IEC 60793-1/60794-1-2	

15	UV-curable dual layer acryl ate coating, which ensures excellent micro bending and abrasion resistance.: COATING
16	Stripping force after conditioning at 23± 5 °C at 40 - 60 % RH for 24 h.Min.: 1.0 N and Max.: 3.5 N
17	Stripping force after ageing in water at 70 ± 5 °C for 168 h. Min.: 1.0 N and Max.: 3.5 N
18	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
19	Cut-off wavelength : High limit: 1330 nm, Low limit : 1180 nm
20	Cut-off wavelength :High limit: 1260 nm,
21	Loss increase at 1550 nm for 100 turns of fiber loosely wound with a 37.5 mm radius: Max. : 0.1 dB
1	Should be ISO/IEC 11801:2002; Uni-tube
2	Should Have 0.155 mm corrugated steel Armor
3	Type: Single Mode MM OM4
4	Cable Jacket material: 1.5 mm LSZH sheath
5	Minimum Cores 6
9	Patch Cord LC – LC OM4 3 meter
1	Patch Cord Should be Multi Mode OM4
2	Type of Connector LC-LC
3	Jacket Material: LSZH
4	Should have option for Visual coding, mechanical coding and lock protection for security purpose.
Precision Air Conditioning Unit Specifications	
Feature/Component	Description
Application	For server/data centre/patch/UPS/network room
Unit Type	DX type, EC fan-motors, fixed scroll compressor
Scope	Supply, install, test, commission precision AC systems
Accessibility	All main components accessible from front, 1m service space, max size 610x2000x810mm (WxHxD)
Electric Heating	60kW/sqm, finned tubular nickel-plated steel, dual safety protection
Safety Interlocks	Heaters/humidifiers only operate with blower fan
Sequencing	Equal run hours, standby starts on fault
Controller Display	Shows unit number, temp/humidity set/actual, mode, status, date/time, last 10 alarms, manual/auto, working hours, etc.
Controller Functions	Password-protected calibration, automatic reset, capacity control, compressor timer, last 10 alarm timestamps, switch status storage

printer

Type : Monochrome Laser Multifunction {Print, Copy, Scan, optional Fax), Print Speed: Minimum 45+ pages per minute (ppm), Paper Capacity: Minimum 550 + 100 sheets standard input, Automatic Duplexing (Double Sided Printing): Required, for efficiency and reduced paper

Scan Specifications: Scan Resolution: Minimum 600 x 600 dpi, higher resolution (1200 dpi) preferred for image detail, Scan Destinations: Scan to email, scan to network folder, scan to USB, scan to cloud repositories (highly desirable). OCR Capability: Desirable for converting scans into editable text files.

Completeness of the system- The specifications detailed herein describe the minimum technical requirements for all items and systems included in the scope of work. It is mandatory for the System Integrator (SI) to provide a complete, functional, and integrated solution. Any component, hardware, software license, cable, connector, rack accessory, mounting kit, power cord, patch cord, or service necessary to achieve the full functionality, integration, and seamless operation of the proposed IT networking and infrastructure solution.

Sr. No.	Item Description	Unit	Qty.	Rate	Amount
1	Supply, installation, testing and commissioning of Fire Extinguisher - clean agent for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
2	Supply, installation, testing and commissioning of Civil & Interior Works - for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lot	1		
3	Supply, installation, testing and commissioning of Fire paint - for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer. Fire Door, Fire Paint	No.	1		
4	Supply, installation, testing and commissioning of Fire Door - for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer. Fire Door, Fire Paint	No.	1		
5	Supply, installation, testing and commissioning of Fire Detection System with GSM Dialler for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
6	Supply, installation, testing and commissioning of Access - Standalone Biometric cum card reader with Lock and Push Button, shall integrate with fire for auto door release for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
7	Supply, Laying, testing and commissioning of os2 ofc as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Mtrs.	6200		
8	Supply, installation, testing and commissioning of CCTV System IP Based (NVR - 4 Channel, 4 MP Camera -4 Nos, Cable, HDD-1 TB, etc.) as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lot	1		

9	Supply, installation, testing and commissioning of Wiring of UPS from nearby DB required as per requirement and complete in all respect and as directed to the satisfaction of engineer.	Lot	1		
10	Supply, installation, testing and commissioning of Precision Air Conditioning system as per the technical specification mentioned and as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	2		
11	Supply, Laying, Testing, Commissioning of C a t 6 A c a b l e as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Mtrs.	10000		
12	Supply, installation, testing and commissioning of Water Leak Detection System (for server room floor area) with GSM Dialler for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
13	Supply, installation, testing and commissioning of Network Rack with smart intelligent system equiped with all security appliances as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
14	Supply, installation, testing and commissioning of Rodent Repellent System (for server room) for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
15	Supply, installation, testing and commissioning of upgradation/expansion of internet points for whole admin area as per the site requirement with all connectors, Input outputs, Faceplates, patch chords, Panels and any other equipments to make it functional as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lot	5		
16	Supply, installation, testing and commissioning of GSM Based Temperature & Humidity Online System for Data Centre as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
17	Supply, Laying, Testing, Commissioning of PVC conduit/flexible/batten as per the requirement as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Mtrs.	10000		

18	Supply, Installation, Testing, Commissioning of 5 KVA UPS system as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No.	1		
19	Supply, installation, testing and commissioning of upgradation/expansion of internet points for whole teaching area as per the site requirement with all connectors, Input outputs, Faceplates, patch chords, Panels and any other equipments to make it functional as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Lot	5		
20	Supply, installation, testing and commissioning of High performance Printer as per requirement as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Nos.	8		
21	Trenchless for OFC Laying as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	Mtrs.	800		
22	Supply, installation, testing and commissioning of expansion of HDPE ISI marked for OFC Laying as per the requirement	Mtrs.	1200		
23	Supply, installation, testing and Commissioning of 21 inch wall mounted rack with all standard accessories 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.	35		