

HLL INFRA TECH SERVICES LIMITED (HITES)

(Subsidiary of HLL Lifecare Limited
A Government of India Enterprise)

TENDER

FOR

**SUPPLY, INSTALLTION, TESTING AND COMMISIONING OF ELECTRICAL
AND LOCAL AREA NETWORK (LAN) INFRASTRUCTURE AT
PHARMACOLOGY SEMINAR ROOM , JAWAHARLAL INSTITUTE OF
POSTGRADUATE MEDICAL EDUCATION AND RESEARCH (JIPMER),
PUDUCHERRY, INDIA.**

Volume- III

TECHNICAL SPECIFICATION

Tender Notice No. : HITES/FM/JIP/ELE/2019-20/004 Dated: 20.03.2020



Golden Jubilee Block, HLL Bhavan, Poojappura P.O
Thiruvananthapuram - 695 012
Kerala, India
Ph: +91-471 2775530
Website: www.hllhites.com

TECHNICAL SPECIFICATIONS

A BRIEF OF REQUIREMENT OF THE WORK:

1. General Scope of Work :

Supply, Installation, Testing and Commissioning of Electrical and Local Area Network (LAN) Infrastructure at Pharmacology Seminar Room, JIPMER, Puducherry.

2. The following are the salient features of the Works:

- a. Supplying And Laying Of UTP 4 pair CAT 6 LAN cable From Manageable Switch to the I / O port to the floor wise Building.
 - b. Supplying and Laying of Sub main wiring for power supply to the switch and socket and patch Chord panels.
 - c. Supplying and Fixing of Medium Class PVC conduit size of 25MM thickness along with accessories for UTP CAT 6 LAN cable and Separately for Power Cable.
 - d. 2.5 SQ.MM, 3Run with Insulation resistance of Fire Retardant Low Smoke (FRLS). to be laying for termination.
 - e. Supplying and Fixing of 3modular surface box, base & plate cover for fixing of 5A/6A rating Switches & Sockets to the fixing area at ground floor and first floor.
 - f. Supplying and Fixing of Input and output box (I/O) with plate cover for connecting the patch panels.
 - g. Supplying and fixing of 28port Manageable switch .
 - h. Supplying and Fixing Of 6U rack for fixing the Manageable Switches in the corresponding floor.
 - i. Supplying and Fixing of RJ 45 Jac connector for connecting the patch Cable of 2m length.
 - j. Supplying and Fixing of Casing capping for the surface of power cable from the nearby power point and false ceiling LAN cable.
3. The work shall, in general, conform to the Latest CPWD Specifications for Civil, Electrical and Mechanical works with up to date correction slips for all sub heads of work as applicable, and, Technical Specifications included in the tender documents, wherever applicable. Wherever any aspect of design / construction / material standards is not covered under the above mentioned specification, relevant standards shall be referred to in the order of precedence which shall be as follows. In the case of discrepancy between the Schedule of Quantities, the Specifications and /or the Drawings, the following order of preference shall be observed -
- a. Description of Schedule of Quantities.
 - b. Particular specification and Specific Condition, if any.
 - c. Drawings.
 - d. CPWD Specifications.
 - e. Indian Standard Specifications of BIS/ NBC/ IRC/ BS/ ASTM/ DIN.

TECHNICAL SPECIFICATION

28 Port Manageable Switch

Specification	24x GbE (1000Base-T) 4x SFP Managed, VLAN-fähig, Rackmount, Internes Netzteil Manageable protocol- GUI/ULI, TELNET, SNMP Device Type:- Switch - 28 ports - L3 - Managed, Enclosure Type:- Rack-mountable 1U Subtype:- Gigabit Ethernet, Performance:- Switching capacity: 56 Gbps Voltage Required :-AC 120/230 V (50/60 Hz), Ports:- 24 x 10/100/1000 + 2 x Gigabit SFP + 2 x combo Gigabit SFP, Layer 3 switching, Layer 2 switching, DHCP support, VLAN support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, DiffServ support, Weighted Round Robin (WRR) queuing, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, firmware upgradable, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), Jumbo Frame,
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Approved Make List		
S.NO	Item Description	MAKE
1	FRLSH Cable, insulated copper conductor	Polycab, RR cable, Havells
2	Medium Class PVC Conduit with accessories	Avon plast
3	Modular Switch, Modular Socket	Legrand, Crabtree, Roma
4	Modular Plate, Modular Cover	Legrand, Crabtree, Roma
5	Casing Capping	Modi
6	Splicing tray	Any Approved ISI make
7	OFC cable	Polycab, Finolex
8	GI pipe	Medium Class Jindal
9	Patch Cord Cable	Schneider,RR cable
10	6U Rack	Schneider,Legrand
11	28 - Port Manageable Switch SG350-28-K9	CISCO