Schematic Diagram of LAN Connectivity at Netaji Subhas Sanatorium (T. B. Hospital, 2nd Floor)

Webel
West Bengal Electronics Industry Development Corporation Limited

10 Nos Node With 10/100/1000 Network Interface Card

24 port 10/100/1000

Node-1 Node-2 Node-10

Bio-Informatics Lab (2nd Floor)

24 port 10/100/1000

GS-FLX Titaniums GS-FLX Titaniums

Weight LAB (2nd Floor)

SERVER ROOM
2nd Floor

Data Backup Station.

Data Analysis Rig

SAN

Web Server

8 port 10/100/1000

Core Switch

GS-FLX Cluster

GS-FLX Cluster

Cat6 UTP Cable

To be provided by BSNL

Internet Cloud 4 Mbps B.W

L.L Modem

Internet Router

DMZ Port

UTM

Administrator

Network Switch 24 port 10/100

Cat6 UTP Cable

Cat6 UTP Cable

Cat6 UTP Cable

Cat6 UTP Cable

Cat6 UTP Cable

Room-1

Room-2

Room-7

(2nd Floor)

Director's Room (2nd Floor)

Conference Room (2nd floor)

Wireless A.P

Wireless Zone

24 port 10/100 switch

24 port 10/100 switch

Windows O/S Environment

Linux O/S Environment

Cat6 UTP Cable

Each computer has 2 NICs

Computer Room-1 (Adjacent to Server Room)
2nd Floor

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ASSUMPTIONS AND KEY FEATURES OF DESIGN ARCHITECTURE

1. BSNL internet bandwidth will terminate on a router.
2. To confirm from BSNL whether 2x2 Mbps or 1 x 4 Mbps link would be provided. It is assumed that BSNL supply the link through Managed leased Line (MLLN) and the modem/ NTU (supplied by BSNL) will terminate on the serial links of the router.
3. Subsequently the internet feed will be routed through UTM (Unified threat Management system). The web server will be located on the de-militarised zone (DMZ). Rest of the units will be on the Millitarised zone (MZ) , which will not be exposed to the internet directly.
4. A high end core switch will form the core of the Campus LAN. The L3 switch will be capable to regulate the bandwidth of each port independently.
5. Separate network switches will be provided to individual legs as per diagram.
6. The diagram shown here is for Phase I of the project. Networking at the remaining zones will be replicated subsequently on completion of the renovation work.
7. The quantities quoted in the "Passive Components" section are estimated quantities only based on the site plan provided. However, billing shall be done on actual basis.
8. **Corrigendum**

   1. Read Twenty Five Lacs in place of Fifty Lacs in page-4 , clause no.4.
   2. Read 6 Weeks in place of 4 weeks in delivery period in clause no13 of page no.13, Section-D.