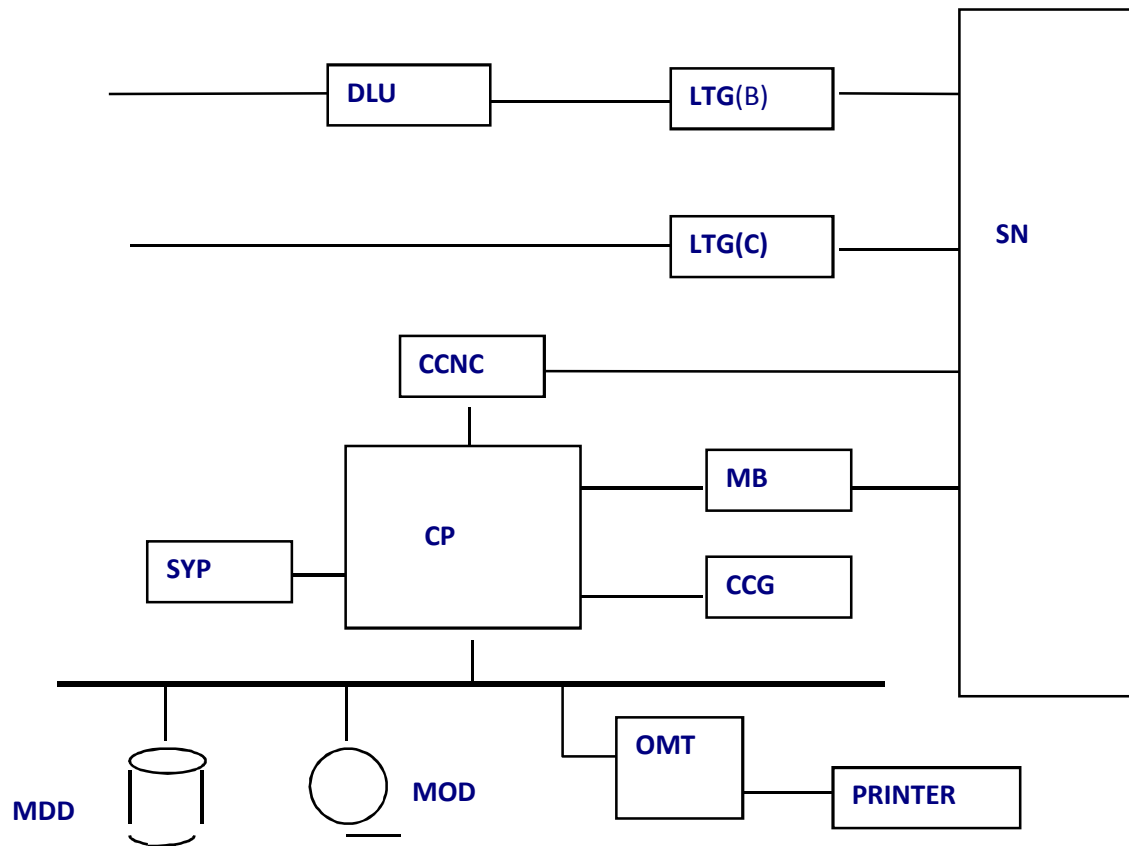# E3-E4 CFA TECHNICAL SWITCHING LAB (EWSD LAB)

AGENDA

- Switching systems in BSNL's Network

- Architecture of EWSD switching System

- Description of EWSD System Units

- Layout of EWSD training Exchange.

- Operational activities in EWSD exchange

- Maintenance schedule for EWSD Exchange

- Registers to be maintained in EWSD Exchange

EWSD LAB

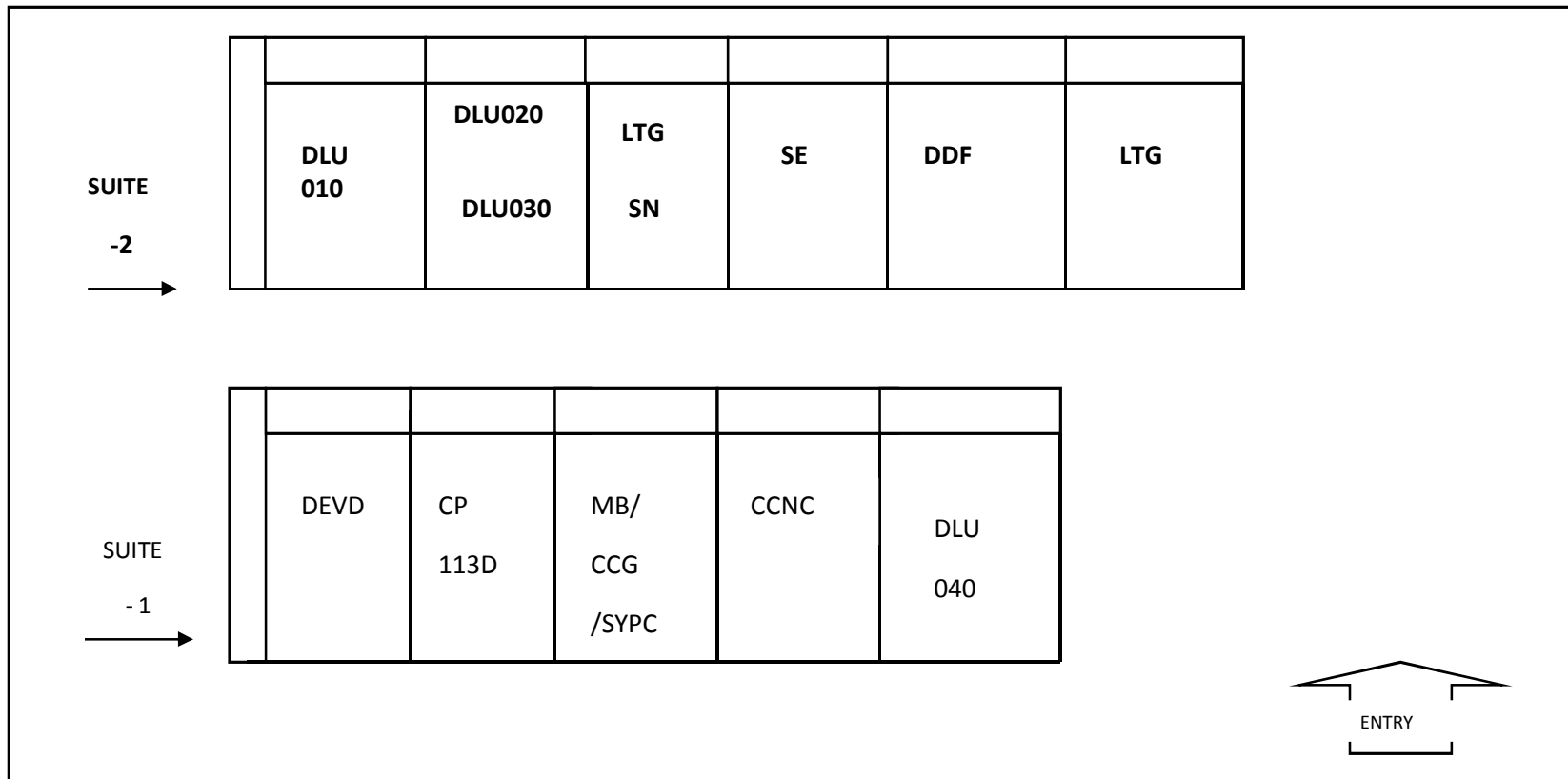## 1. Architecture of EWSD Switching

EWSD LAB

2. DESCRIPTION OF EWSD SYSTEM UNITS

- **Digital Line Unit (DLU)**
- **Line/ Trunk Group (LTG)**
- **Switching Network (SN):-**
- **Co-ordination Processor (CP)**
- **Message Buffer (MB):-**
- **Common Channel Signaling Network Control(CCNC)**
- **System panel Display (SYPD)**
- **Central Clock Generator (CCG)**

EWSD LAB

3. LAYOUT OF TRAINING MODEL EWSD LAB

	DLU 010	DLU020 DLU030	LTG SN	SE	DDF	LTG

SUITE -2 →

	DEVD	CP 113D	MB/ CCG /SYPC	CCNC	DLU 040

SUITE - 1 →

ENTRY

EWSD LAB

4. TERMINALS IN EWSD LAB.

- Two OMTs (Operation and Maintenance Terminals) with UNIX as Operating system.
- Four X-25 Terminals with UNIX as Operating system.
- Three X-25 Terminals with Windows-N/T as Operating System.
- One PC is being used as SYSD.

EWSD LAB

5. MAINTENANCE SCHEDULE

- Checking system alarms (Daily)
- Checking status of Hardware units (Daily)
- Checking of lab temperature (Daily)
- Taking APS routine saving (fortnightly)
- Taking APS golden saving (Quarterly)
- Filter cleaning (Six monthly, e.g. 30th June and 31st December)

6. REGISTERS to be maintained in Exch.

- PCM Register:- Record of connectivity
- Faults record log book: - All the faults are recorded.
- AC register (Temperature Record Register)
- Subscriber Record Register:-All the subscriber's data are recorded
- Data Operation:- Data related to routing, configuration of systems etc. are recorded.

EWSD LAB

CONTD.......

REGISTERS to be maintained in the Exch.

- Register for Spares: - Details of all spares available in the exchange.
- Faulty PCB register: - Details of the faulty card and its repairing details.
- APS saving Register: - Details of fortnightly and quarterly APS savings.

EWSD LAB

Conclusion:- Now it is known to trainee that -

- What is a Switching systems?

- What is the Architecture of EWSD switching System ?

- Describe the Various units of EWSD switching System ?

- Draw the Layout of EWSD training Exchange?

- What are the Operational activities carried out in EWSD exchange?

- What are the Mtce. schedules for EWSD Exchange?

- What type of Registers are maintained in EWSD Exch.?

EWSD LAB