E4-E5 CFA

Inspection of CFA Network

WELCOME

- This is a presentation for the E4-E5 CFA Module for the Topic: **Inspection of CFA Network**
- Eligibility: Those who have got the upgradation from E4 to E5.
- This presentation is last updated on 21-3-2011.
- You can also visit the digital library of BSNL to see this topic.

AGENDA

❑ Concept Of Inspection of CFA Network

❑ Performa used for covering all the points of inspection of Fixed Line Telephone Exchange

❑ Performa is used for covering all the points of Broad Band service inspection

Inspection Of CFA Network

Inspection of every **Fixed Line Telephone Exchange** of BSNL is to be done once a year by Inspection Circle, erstwhile T&D Circle. If due to any reason it could not be completed in the current year next year inspection of that exchange is done on priority basis.

Proforma used for inspection of Tel.Exch.

INSPECTION PROFORMA FOR EXCHANGE			
NAME OF CIRCLE		Name of SSA	
LOCATION			
NAME OF THE EXCHANGE		DATE:	
TYPE & MAKE OF EXCH.			

Proforma used for inspection of Tel.Exch.

A. INFTRASTRUCTURE			
	DETAILS OF CHECK LIST	OBSERVATION	REMARK
1	Check the Measured Earth value and date of measurement		
2	Check the availability of earth distribution diagram and physical check of connectivity		

Proforma used for inspection of Tel.Exch.

3	Check the working of E/A sets Main & S/B and switchover of load		
4	Check for diesel availability	Yes/No	
5	Check the working of fire alarm system	Yes/No	
6	Check the availability of fire extinguishers/ sand bucket	Yes/No	

Proforma used for inspection of Tel.Exch.

7	No of A/C installed/Working & Room Temp		
8	Check Maintenance schedule of A/C units		
9	Capacity of power plant in (Amp) & working load		

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10	No. of power plant modules in working conditions (out of total no..)		
11	Check of log book being maintained for battery health		
12	Check for battery test discharge conducted		

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12.1	No. of Hrs battery sets is able to take load? (both set combined if available)		
12.2	No. of faulty cells (both sets combines)		
13	Availability of spare fuses		
14	DC emergency light in case of power failure		

15	General cleanliness of the battery room		
B. MDF			
16	Earthing of MDF		
17	Protective devices in the line/exchange side		
18	Maintenance of records in MDF		
19	Neatness in the MDF jumpers		

20	Line testing arrangement		
C. SWITCH ROOM			
21	Total capacity of the exchange		
22	% of loading		
23	Log book and other records		
24	Availability of tools and testers (e.g.multi-meter)		

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25	Availability of spare cards		
26	Sample check of announcements		
27	Sample check of emergency services like fire etc.		
28	Check of faulty PCBs & turn around time		
29	Check for critical pending alarms in the exchange		

Proforma used for inspection of Tel.Exch.

30	Generation & availability of traffic reports		
31	Type and capacity of transmission media		
32	Checking of synchronization of transmission node like DXC,MADM and switching nodes		
33	Checking of logic switchover from main to standby in alternate time gap		

Proforma used for inspection of Tel.Exch.

34	Check of redundancy of transmission media		
35	Any other comments		
		Signature of Inspecting Officer	
		Name	
		Designation	
		Date	

Broad Band Service

Inspection of every **Broad Band** service is to be done once a year by Inspection Circle ,erstwhile T&D Circle. If due to any reason it could not be completed in the current year next year inspection of that exchange is done on priority basis.

Broad Band Service

Proforma is used for covering all the points of Broad Band Service inspection:

Technical inspection of Broad Band Service			
I. GENERAL INFORMATION			
NODE DETAILS			
1.	Name of SSA/Circle:		
2.	Name of City / Exchange:		
3.	Type of City/ Exchange		

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4.	Type of Equipment (BNG/T-I/T-II/OCLAN/ DSLAM with Capacity and make)		
5.	Whether A/T certificate issued or not		

II. GENERAL TECHNICAL INSPECTION

SI No	DETAILS OF CHECK LIST	OBSERVATION	REMARK

Broad Band Service

Sl No.	DETAILS OF CHECK LIST	OBSERVATION	REMARK
1.	Whether a network diagram indicating the connectivity of the node to other nodes as well as internal connectivity of the equipment i.e. how the various routers, servers are connected and the IP addresses of various interfaces is prominently displayed?	Yes / No	

Broad Band Service

2.	Whether a board is displayed indicating the number of Broad Band customers?	Yes / No	
3.	Whether the equipment room is clean and the equipment dust free? (Check for dust prevention measures that can cause damage to the modules. Modules can be jacked out and observe for any dust accumulation on the components / terminations of the modules.)	Yes / No	

4.	Whether the environment variables like temperature, dust, humidity are being maintained as per maintenance guidelines?	Yes / No	
5.	Whether the date of commissioning of the node is displayed?	Yes / No	
6.	Whether battery, power plant and inverter are in good working condition?	Yes / No	

7	Check for battery test discharge conducted		
7.1	No. of hrs battery sets is able to take load? (both set combined if available)		
7.2	No. of faulty cells (both sets combines)		
8	Whether the fire extinguishers are available?	Yes / No	

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9	Whether the fire alarms are in working condition?	Yes / No	
10	Whether the equipment is properly labeled so that the equipment name is properly identified?	Yes / No	
11	Whether the wiring is properly laced?	Yes / No	
12	Whether the proper method for reporting the link faults is being followed?	Yes / No	

13	Whether log book is available in the equipment room containing details like the downtime of the equipment/node, cause of downtime, downtime links, downtime of customers etc?	Yes / No	
14	Whether a log book is available in the equipment room containing details of routine testing of different ports?	Yes / No	
15	Type and capacity of transmission media		

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16	Check of redundancy of transmission media		
A. BRAS / BNG			
	Name of BRAS/BNG		
SI No	DETAILS OF CHECK LIST	OBSERVATION	REMARK
1.	Total downtime of BRAS/BNG during last one month		
2.	Check for alarms, whether alarms are actually raised on a fault / check for fake alarms		

3.	Check whether eMS is being utilized by the in-charges.	Yes/No	
B.	**RPR T-I/T-II/ OCLAN and Tier-1/ Tier-2**		
	Name of Tier-1/Tier-2/ OCLAN		
Sl. No	DETAILS OF CHECK LIST	OBSERVATION	REMARK
1.	Note down the environment variables, temperature, humidity.		

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2.	Total downtime during last one month		
3.	Check for alarms, whether alarms are actually raised on a fault / check for fake alarms		
4.	Check whether EMS is being utilized by the in-charge.	Yes/No	

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C. DSLAM			
	Name of DSLAM		
Sl. No	DETAILS OF CHECK LIST	OBSERVATION	REMARK
1.	Note down the environment variables, temperature, humidity:		
2.	Status of ADSL ports, total ports, total working ports, total faulty ports	Total port :	
3.	Total downtime during last one month		

4.	Check for alarms, whether alarms are actually raised on a fault / check for fake alarms		
5	Check whether eMS is being utilized by the in-charge.	Yes/No	
Observation/ Suggestion/ Remarks of Inspection officer			

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		Signature of Inspecting Officer	
		Name	
		Designation	
		Date	