Chapter 13

Inspection of CFA Network

Inspection Of CFA Network

Inspection of every 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.

The following proforma is used for covering all the points of inspection.

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

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		
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	
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		

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		
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 jumpering		
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)		
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		
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		
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.

The following 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		
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**		
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	
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	
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		
16	Check of redundancy of transmission media		
A. BRAS / BNG			
	Name of BRAS/BNG		
Sl 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.		
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	
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			
		Signature of Inspecting Officer	
		Name	
		Designation	
		Date	

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