



National Centre for Next Generation Network

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STATUS OF NGN C-5 SWITCH

A. General

1. Inter Operability Test Schedule approved.
2. Acceptance Testing Schedule for Battery, Power Plant & UPS approved.
3. Acceptance Testing Schedule for LMG and LAN Switch approved.
4. Acceptance Testing Schedule for Core Switch approved.
5. Validation Testing Schedule for Core & Access Switch is in process for approval.

B. Infrastructure Status of South & East Zone

1. NGN Core site Bangalore:
Installation and A/T of Battery & Power plant completed. Installation of UPS completed.
2. NGN Core site Hyderabad:
Installation and A/T of Battery & Power plant completed. Installation of UPS completed.
3. NGN Core site Kolkata:
Installation and A/T of Battery & Power plant completed. Installation of UPS completed.
Installation and A/T of Earthing completed.
4. NGN Core site Bhubaneshwar:
Installation and A/T of Battery & Power plant completed. Installation of UPS completed.
Installation and A/T of Earthing completed.

C. Integration with existing BSNL network for South & East zone

1. Integration of IP/MPLS PE Router with IMS C-5 switches completed.
2. Integration of IP TAX on SIP I with IMS C-5 switches is complete at South & East zone
3. Integration of PLMN (SIP I) with IMS C-5 switches is complete at South zone and connected via IP TAX in East zone.
4. Integration of TDM TAX through STM with IMS C-5 switches is complete.
5. Integration BBRAS with IMS C-5 switches are in progress.
6. Integration of CDR billing with IMS C-5 switches are in progress.

D. Infrastructure Status of West & North Zone

1. NGN Core site Pune:
Civil and Electrical works are complete except Precision AC is expected to be ready by 15th April 2014.
2. NGN Core site Ahmedabad:
Civil and Electrical works are complete except Precision AC is expected to be ready by 22nd March 2014
3. NGN Core site Chandigarh:
Civil and Electrical works are in progress.
4. NGN Core site Lucknow:
Civil and Electrical works are in progress.

1. **OBSEVRVATION**

1.1 **C-DOT: No voice path in AN-RAX even if AI-Link is in-service**

Problem of no voice path in AN-RAX have been noticed even when the AI-links are found in in-service. In this case, when a fixed line subscriber will dial AN subscriber or vice versa then ring will be extended to the called subscriber and RBT will be heard by calling party. However when the called party will go off- hook, voice will not be through.

C-DOT analyzed this problem and informed that such condition have been noticed when the primary and secondary PCMs are interchanged. To, avoid occurrence of such problems care has to be taken that primary and secondary PCM should not be criss-crossed.

Therefore, Exchange In-charge of C-DOT Exchange is requested to check the connectivity of primary and secondary PCM in case they notice such problem.

1.2 **Automatic isolation/ reconnection of Battery from load**

It has been observed during the inspection of Exchanges / RSU that the automatic isolation / reconnection of battery banks from load has not been implemented in power plants thereby exposing the batteries to deep discharge, this reduces the life of batteries significantly.

As per MS Cell, BSNL Corporate Office Letter No. 7-1/2003-PHM dated 04.01.2005 and TEC GR issued vide no. GR/SMP-01/04 Feb 04, provisioning of automatic isolation / reconnection of battery banks from load with lower cut off voltage of 1.85 V/Cell or battery voltage of 44.4 Volts is to be implemented in all the power plants.

Therefore, Officers in-charge of all Exchanges should ensure the implementation of automatic isolation / reconnection of battery banks from load so as to avoid deep discharge of batteries.

2. **ACTIVITIES CARRIED OUT DURING FEBRUARY 2014**

A. **C-DOT TECHNOLOGY**

✦ **INSPECTION**

Inspection of following CDOT exchanges was carried out during February 2014:

South Zone: Piduguralla, Ponnuru, Island Centre, Sattanapalli, Ongole, Ongole Bypass Road, Podili, Dharmavaram, Guntakkal Local, Guntakkal RSU, Tenali, Gandhinagar, Reppalli, Mettupalayam, Sirumugai, Karamadi, Palladam, Pollachi, Nachimuthu Polytechnic, Namakkal, Salemroad, Rasipuram, Namagiripet, Omalur.

West Zone: Karad, Ogalewadi, Patan, Dahiwadi, Vaduj, Phaltan, Lonand, Wai, Mahabaleswar, Medha, Satara, Powainaka, Satara MIDC, Koregaon, Akola-I, Akola-II, Akot, Washim, Murtijapur..

✦ **SUPPORT EXTENDED BY C-DOT ORGANISATION**

Software for C-DOT Switches has been prepared by C-DOT and provided on Deliverable Media (Cartridges / EPROMs): Nil during February 2014.

CORRECTIVE MAINTENANCE

▪ Problems Solved (Telephonically/ in writing)	:	352
▪ Exchange Data Correction	:	6

CRITICAL FIELD PROBLEMS

Critical Field Problems were attended in the following C-DOT Exchanges during February 2014:

South Zone: Perambaroor (KL), Peramba (KL).

East Zone: Alipurdwar (WB).

North Zone: Amargarh (PB), Barnala (PB).

PREVENTIVE MAINTENANCE VISIT

Preventive maintenance visit was carried out in following C-DOT Exchanges during February 2014:

South Zone: Kallakurchi (TN), Kanchipuram (TN), Perambavoor (KL).

East Zone: Sibsagar (AS).

North Zone: Palampur (HP).

B. NEW TECHNOLOGY

✦ INSPECTION

Inspection of following New Technology Exchanges was carried out during February 2014:

South Zone:

- **OCB-283:** Ongole, Ongole Bypass Road, Adyar, L P Nagar, Sholinganallur, Gopalapuram, Srikumaran Nagar, Kallikuppam.
- **EWSD:** Guntur, Arundelpet, Tirupur, Veerapandi, Somanur.

3. PLAN FOR PERIOD : MARCH – MAY 2014

A. C-DOT TECHNOLOGY

✦ INSPECTION

Inspection of the following CDOT Exchanges has been planned for period from March 2014 to May 2014:

MARCH 2014:

South Zone: Kadayanallur, Mbasamudiram, Kadappa, Rajampet, Virudachalam, Neyveli Township, Chidambaram, Arani, Polur, Ranipet, Chittoor-I, Chittoor-II, Namakkal, Omalur, Rasipuram.

West Zone: Pandharpur, Mangalweda, Sangola, Akluj, Kurudwadi, Mohol, Barsi, Karmala, Akkalkot.

APRIL 2014:

South Zone: Tisaiyanvillai, Kayalpatnam, Villupuram, Vikramasingapuram, Kumbakonam, Annaimalai, Kothagudam, Khammam, Bhadrachalam, Karimannur, Thodupuzha, Kothamangalam, Bellary, Hospet, Kopal, Iritty.

MAY 2014:

South Zone: Arakonam, Thirupathur, Thiruvannamalai, Kadri, Machilipatnam, Vuyyuru, Jagaiyapet, Chikmangalur, Tumkur-I, Tiptur, Salem, Attur, Gadwal, Mahabubnagar, Nagarkurnool, Wanaparthy, Karkala, Sankaranarayana.

B. NEW TECHNOLOGY

✦ INSPECTION

Inspection of the following New Technology Exchanges has been planned for period from March 2014 to May 2014:

MARCH 2014:

West Zone:

- **OCB-283:** Solapur.

South Zone:

- **OCB-283:** Palayamkottai, Kadappa, Ranipet, Harbour RSU → Kolathur, Vallalarnagar, Perambur, Adyar RSU → Kotturpuram, Sivagamipuram, Flower Bazaar RSU → Netaji Nagar, Kaladipet.
- **EWSD:** Chittoor.
- **AXE-10:** Anna Nagar, Anna Nagar RSU → Triplicane.

APRIL 2014:

South Zone:

- **OCB-283:** Kumbakonam, Ramnagar, Thalassery, Kodambakkam, St.Thomas Mount RSU → Ullagaram.
- **5ESS:** Tripunithura, Kanhangod, Kuthuparamba.
- **EWSD:** Khammam, Kodambakkam, Kodambakkam RSU → Gandhi Nagar, West KK Nagar, Choolaimedu.
- **AXE-10:** Anna Road RSU → Cathedral Road.

MAY 2014:

South Zone:

- **OCB-283:** Thiruvannamalai, Kadri, Raj Bhavan, R K Nagar, Harbour RSU → Annanagar Quarters, Raj Bhavan RSU → Taramani Link Road, St. Thomas Mount RSU → Ekkaduthangal, Velachery, Pallikaranai.
- **5ESS:** Velur, Pandeswar.
- **AXE-10:** Annanagar RSU → Avadi.



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**CIRCLE WISE DETAIL OF SUPPORT EXTENDED BY C-DOT ORGANIZATION DURING
FEBRUARY 2014**

S.N.	Telecom Circle	C1	C2	C3	C4	C5	C6	C7
1	A & N							
2	Andhra Pradesh							
3	Assam	2	1					
4	Bihar	10						
5	Chhattisgarh	6						
6	Gujarat	17						
7	Haryana	71						
8	Himachal Pradesh	7	2					
9	J & K	9						
10	Jharkhand							
11	Karnataka		4	1				
12	Kerala	1	3					2
13	Madhya Pradesh	76						
14	Maharashtra			1				
15	NE-I (Shillong)	5						
16	NE-II (Dimapur)	1						
17	Orissa	5	1	1				
18	Punjab	32	2	2				2
19	Rajasthan	32						
20	Tamil Nadu		4	1				
21	UP - East	22						
22	UP - West	32						
23	Uttarakhand	18						
24	West Bengal	2	2					1
	Total	352	19	6	Nil	Nil	Nil	5

C1	Problems Solved (Telephonically/ In-writing)	352
C2	Site Visit	19
C3	Exchange Data Correction	6
C4	Engineering Change Note (ECN) Implementation	Nil
C5	Software Retrofits	Nil
C6	Deliverable Media Preparation (Cartridges/ EPROMs)	Nil
C7	Critical Field Problems	5

Maintenance support philosophy for landline Exchanges in BSNL network

✦ New Technology Exchanges i.e. OCB-283, EWSD, AXE-10 and 5ESS

- AMC for hardware and software support with vendors: Alcatel-Lucent, ITI Ltd., Nokia-Siemens and Ericsson.
- The AMC includes tele-assistance, on-site assistance, PCB repairing, computer terminal repairing, MTU repairing, racks inter-connecting cables repairing, software upgradation etc.
- Nodal officer in circle/ region: PGMs/ GMs/ DGMs in Circle office
- Reference:
 - No. 43-1/2004-PHM/Vol. III dated 20.05.2005
 - No. 117-03/2004-MMD/Vol.III dated 11.03.2008
 - No.43-10-2012/NWO-CFA-MSE dated 11.06.2012
 - No.43-1/2012/NWO-CFA-MSE dated 24.08.2012

✦ C-DOT Exchanges

- Software support: MoU with C-DOT comprising tele-assistance and on-site assistance
- References:
 - No. 36-2/2006-PHM dated 23.05.2007
 - No. 36-2/2005-PHM-MSE dated 23.05.2008
 - No. 36-2/2005-PHM-MSE dated 30.05.2008
 - No. 36-1/2011-PHM-MSE dated 21.12.2011
- Hardware support: the field units should get the C-DOT PCBs repaired through following manner:
 - Through in-house repair centers
 - Through tender at circle level from authorized manufacturers
- Reference:
 - No. 36-3/2004-PHM dated 22.03.2005
 - No. ND/NCES/32-1/Vol.V/61 dated 02.01.2009
 - No. 36-4/2008-PHM-MSE dated 04.04.2012

✦ E10B Exchange

- Hardware support: the faulty E10B PCBs shall be got repaired through Annual repair contract through ITI Ltd. only.
- References:
 - No. 19-11/2006-PHM/MSE dated 19.06.2007
 - No. ND/NCES/8-3/PNC/Vol. V/53 dated 23.06.2007
 - No. ND/NCES/8-3/PNC/Vol.VI/30/1481 dated 31.10.2009
 - No. ND/NCES/8-3/PNC/Vol.VII/5 dated 15.01.2013

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