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No. MOB-14/NWO-CM-III/QoS/2014-15/138 <sup>139</sup>

Dated: 10-03-2015

To,  
The Chief General Managers,  
East & South Zone Circles/ Telecom Districts

**Sub: Actions to be taken to improve the QoS of Mobile Data Services- Nortel Networks.**  
**Ref: MOB-14/NWO-CM-III/QoS/2014-15/127 Dated: 24-02-2015**

Vide letter under reference, all the circles were requested to undertake following actions to improve the QoS of 2G Data services- Nortel Networks.

1. Minimum 4 no of channel per sector should be permanently configured for 2G Data for all BTSs with traffic utilization < 150% in BH. Additional channels can be dedicated for Data depending on voice traffic and 2G data traffic.
2. All BTS with voice traffic utilization > 70% (without AMR) during busy hour should be connected with 2E1 and AMR implemented. The AMR benefit shall be optimised to at least 30% [an increase in traffic capacity] so that more data traffic can be carried.
3. BSC to SGSN connectivity should be on ring and minimum 4E1 should be provided for each BSC (with around 100BTS) to SGSN. For BSC with more than 100 BTS the no. of E1 should be proportionally increased.

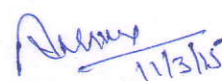
Reports have been received from most of the circles and following are the general observations.

1. CHTD & Kol TD has informed that BSC to SGSN connectivity with 4 E1 is possible with the supplied equipment. However some rearrangement at PCU is required.
2. No. of E1 connectivity between BSC and PCUSN is less than or equal to the no. of E1 between PCUSN and SGSN; This need to be changed:-

Based on the reports from the circles and basic guidelines received from M/s Ericsson following action must be taken by circle and compliance given by 17-03-2015.

- (a) Minimum 8 E1 between BSC and PCU should be configured for a BSC with approximately 75 BTSs and 4 dedicated channel for data per sector. No. of E1 may be increased according to no. of BTS connected.
- (b) It is suggested that no. of E1 between BSC & PCUSN should be at least 50% higher than that of PCU to SGSN.
- (c) PCU to SGSN connectivity per BSC should be minimum 4E1 but need to be enhanced depending upon no. of BTS connected to the BSC and growth potential.
- (d) Requirement of any additional H/W (e.g. PCUSN shelf or PCUSN cards) may be assessed and submitted to BSNL Co with the financial viability considering the growth potential of the respective BSC area. The requirement of all circles will be consolidated and the procurement of the items will be taken up with M/s Ericsson centrally.

This is issued with the approval of Director CM/ BSNL Board.

  
(A.K.Verma)  
AGM (NWO-CM-III)

Copy to: M/s Ericsson –for necessary guidance to circles