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भारत संचार निगम लिमिटेड  
(भारत सरकार का उपक्रम)  
**BHARAT SANCHAR NIGAM LIMITED**  
(A Govt. of India Enterprise)

No.254-33/2012-NGN-Implementation /NWP-CFA/Access Dated 28 - 08 - 2012

To  
The CGMTs  
(..... Telecom Circle)

**Sub: Procurement planning for replacement of TDM Local Telephone Exchanges by NGN Class 5 Access equipments (LMGs)-regarding**

This is with reference to finalization of Procurement Planning for deployment of NGN Class 5 Access equipments (LMGs) in BSNL Fixed Network for replacement of TDM technology local telephone exchanges that have completed more than 12 years of life. BSNL Management has decided to establish 4 Million Capacity IMS based NGN Core and LMGs in access network for this purpose. The award of work (placement of order) will be in two phases: 1 Million LMG ports with phase-I order and balance quantity of 3 Million LMG ports through phase –II order including Reservation Quota. The tender is already under process.

2. In pursuance to the information, regarding capacity requirement of Class 5 NGN equipment for the replacement of TDM switches, received from your office w.r.to this office DO No. 254-28/2010 TPL(NGN) /Vol II dated 07-09-2011, the exchanges identified and tentative LMG capacity proposed to be allotted is indicated at **Annexure-I**.


3. You are requested to prepare the final procurement plan for replacement of exchanges having completed more than 12 years of life and also you may work out the LMG capacity requirement for expansion of network in new developing areas. While preparing the procurement plan following items may be considered as the same shall be required while placing the purchase order to successful bidder by circles. The APO shall be issued by MM cell of BSNL CO and after its acceptance, the NGN access equipment (LMGs, ISDN PRI etc.) capacity authorization shall be issued to circles for placement of purchase order.

- a. LMGs are being procured of configurations namely, 256 ports, 500ports, 1000ports and 2000 ports. For replacement of higher capacity telephone exchanges of 10K and above, the 2000ports or combination with 1000 ports LMGs will be procured.



- b. The combination of ports in LMGs will be 75% (POTS only, CCBs) and 25% combo ports (ADSL2+ and POTS) or its equivalent.
- c. Layer-3 LAN switch for aggregation
- d. ISDN PRIs requirement
- e. As ISDN BRIs are not available in LMGs, circles need to migrate BRI customers to ADSL 2+ VPNs or other alternate solution for data calls before the replacement of TDM switches with NGN(LMGs). The information in this regard is enclosed as **Annexure-II**.
- f. MDF tag blocks for horizontal side shall be supplied by vendor as per the site wise LMGs ports capacity.
- g. **Power Plant and Batteries**: Existing Power Plant and Batteries are required to be used wherever the same are not under life expiry. However as part of tender the power plant and battery is an optional tendered item but limited for 30% sites of LMGs. This item shall only be included in procurement by circles through NGN tender after assessing the actual site wise requirements.
- h. The MDF material is also an optional item tendered limited to 10% sites only. It is anticipated that such requirement may not be there in case of replacement. However circles may also make an assessment in this regard.
- i. **IP/MPLS connectivity** shall be provided for each LMG sites by BSNL, therefore circles need to ensure the availability of ports in PE router site wise as indicated in Annexure-I. In this regard the consolidated requirement has also been sent to GM (CNP), BSNL CO.
- j. **Site preparation** with environmental conditions is the responsibility of BSNL.

In view of the above, you are requested to finalize the equipment planning and the procurement plan thereto for the NGN Access equipment and intimate this office latest by 30/09/2012 in the same format as per **Annexure-I**.

  
(M.C. Chaube) 28.8.12  
Sr GM(NWP-CFA)  
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Encl: Annexure-I and II