



No. 32-96/2013-NWPBB/FTTH Services

Dated :05-04-2013

To

The Chief General Managers,  
Gujarat/MP/CHH/MH/CH-TD/KTK/TN/AP/KR Circle

**Subject: Use of Multi Dwelling Units (MDUs) for providing FTTH connections.**

BSNL has introduced FTTH to its customers in year 2009-2010. Since then, BSNL has provided approx. 11000 customers but the progress is far from satisfactory. Recently, BSNL Corporate Office has taken certain steps which have improved the uptake but not to the level which is required.

Some Circles are finding problem in laying optical fiber in those buildings whereby Ethernet is already available. The problem faced is w.r.t. additional cost of the fiber and also the permission by the owner or the building management. Multiple dwelling unit (MDU) provide a solution to this problem whereby the fiber can be terminated upto MDU thereafter the signals/band-width can be carried on Ethernet. MDU is the last mile distribution of the end network representing the demarcation point for electronic and home wiring whereby end user is connected (that is Apartment, Town Homes, and Campuses). The advantages of MDU can be listed as below:-

- Basic purpose of the MDU to provide services upto 24 Data + Voice subscribers within 100m range, in a cost effective method.
- MDU can be a suitable solution to cater services up to 24 Data + Voice subscribers where located within the range of 100m.
- MDU supports voice feature through a SIP protocol like other GPON ONTs.
- MDU supports 230V AC power supply. Since MDU will be installed at a common place, a single online UPS will serve the purpose of power backup.
- Supports built-in Layer-2 switching functionality, user-to-user communication can be optionally enabled to provide virtual LAN services within the Small or Medium Business customer.
- MDU also supports advanced features like MAC address limiting Multicast rating, IGMP snooping for IPTV service, Dying gasp, etc.

There is no need for ONT at customer premises with MDU, however, a normal CPE (Modem) of ADSL 2+ can be provided at customer premises. This will resolve the problem of non-availability of Wi Fi ONT.

BSNL Corporate Office desires to set up demonstrative MDUs in some of the cities. Circles ready for such experiment may give their consent with the name & address of the building, if possible, as soon as possible. The information may be given on mail-id [kishan\\_bal@bsnl.co.in](mailto:kishan_bal@bsnl.co.in).

(ANIL JAIN)  
Sr. GM (NWP-BB)

**CC:** Director (CFA) for kind information please.