



## GramNet to Connect All Villages through Wi-Fi

The Government has reiterated its commitment to provide **Wi-Fi in all the villages through [GramNet](#) with connectivity between 10 Mbps to 100 Mbps speed.**

- During the **36<sup>th</sup> Foundation Day celebrations of Centre for Development of Telematics (C-DOT)**, Minister of State for Communications announced that **BharatNet also plans to provide 1 GBPS connectivity, which can be expanded up to 10 GBPS.**
- C-DOT also launched **three latest innovations** during Foundation Day Celebration, which are as follows:
  - **XGSPON (10 G Symmetrical Passive Optical Network)**
    - It can fulfil the increasing demands of high network speeds emanating from the new dimensions of user applications like IPTV, HD Video Streaming, Online Gaming.
    - It can also be a host of other cloud-based services that necessitate the seamless availability of high bandwidth.
  - **C-Sat-Fi (C-DOT Satellite WiFi)**
    - It is based on the optimal utilization of wireless and satellite communication to extend connectivity.
    - It offers the ease of deployment, which is ideally suited to addressing disasters and emergencies when no other means of communication are available.
    - It does not require the expensive Satellite Phones and can work on any WiFi-enabled phone.
  - **CiSTB (C-DOT's Interoperable Set-Top Box)**
    - Based on a portable smart card like a mobile SIM, this solution will revolutionize the experience of the Cable TV operators by offering them a high degree of choice, ease and convenience without having to replace the once installed STB.
- The above innovations seek to address the **[challenges in the Telecom Sector](#)** and empower Indian people especially in rural and remote areas as connectivity will bind people from all corners of the country.

### Centre for Development of Telematics (C-DOT)

- It was established in 1984.
- It is an **autonomous** Telecom R&D centre of DoT, Government of India.
- It is a registered society under the **Societies Registration Act, 1860.**
- It is a registered public-funded research institution with the Department of Scientific and Industrial Research (DSIR), Government of India.
- Currently, C-DOT is working towards realising the objective of various flagship programmes of Govt. of India which include **[Digital India](#), [BharatNet](#)**, Smart Cities etc.

GramNet is a part of **National Broadband Mission (Rashtriya Broadband Abhiyan)** to secure universal broadband access. Apart from this, **[there are other initiatives being taken](#)** under the same.

Few being:

- **BharatNet**- Providing 1 Gbps to Gram Panchayats upgradeable to 10 Gbps
- **NagarNet**- Establishing 1 Million public Wi-Fi Hotspots in urban areas
- **JanWiFi**- Establishing 2 Million Wi-Fi Hotspots in rural areas

**Source: PIB**

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