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GramNet to Connect All Villages through Wi-Fi

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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 **36th 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