

(c) whether 5G will emerge as the key catalyst to fuel the growth of digital economy in India, if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS (SHRI DHOTRE SANJAY SHAMRAO): (a) A High Level Forum for 5G India 2020 was constituted in September 2017 to articulate the Vision for 5G in India and to recommend policy initiatives and action plans to realize this vision. The High Level Forum submitted its report titled as "Making India 5G Ready" in August 2018. Based on the report, the Government is creating an enabling framework for deployment of affordable 5G services in India. The 5G services are expected to be introduced gradually and advance to a full range of services as ecosystem and demand for services grows.

(b) The previous generation technologies 2G networks primarily offered voice services but 3G and 4G technologies offered the networks providing internet-based services like video, email and social media. The difference between 5G technology and 4G Technology is as tabulated below:—

Key Capabilities	5G	4G
Peak Data Rate (Gbit/s)	20	1
User Experienced Data Rate (Mbit/s)	100	10
Spectrum Efficiency	3x	k
Latency (ms)	1	10
Connection Density (devices/km <sup>2</sup> )	10 lakh	1lakh

(c) 5G technology will emerge as the catalyst to fuel the growth of digital economy in India by enabling a rapid expansion of the role of information technology across manufacturing, educational, healthcare, agricultural, financial and social sectors etc.

#### **Time bound upgradation in MTNL**

1617. SHRI SANJAY RAUT: Will the Minister of COMMUNICATIONS be pleased to state:

(a) whether Government is considering to grant 1st Time Bound Upgradation under Executive Promotion Policy (EPP) for Grade 'B' equivalent absorbed MTNL officers, like BSNL officers (BSNL Notification No. 400-55/2016-Pers.-I, dated 23rd Oct., 2019); and

- (b) if so, by when it will resume and if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS (SHRI DHOTRE SANJAY SHAMRAO): (a) and (b) Mahanagar Telephone Nigam Limited (MTNL) has informed that it is not contemplating/considering to change its upgradation policy.

**Compensation to telecoms for development of telecom infrastructure**

1618. SHRI NARAYAN LAL PANCHARIYA: Will the Minister of COMMUNICATIONS be pleased to state:

- (a) whether Government is providing any compensation to telecom service providers for creation and augmentation of telecom infrastructure in rural and remote areas;

- (b) if so, the details thereof and if not, the reasons therefor;

- (c) the details regarding budget provision made for this purpose during the last three years;

- (d) whether any such funds have been allocated for development of telecom infrastructure in rural and remote areas of Rajasthan; and

- (e) if so, the details thereof and if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS (SHRI DHOTRE SANJAY SHAMRAO): (a) and (b) The Government has created a Universal Service Obligation Fund (USOF) which is being used for providing viability gap funding etc. for creation and augmentation of telecom infrastructure in rural and remote areas.

- (c) The details of budget provision made for the said purpose during last three years is as under:—

Financial Year	2016-17	2017-18	2018-19
₹ in crore	1590.94	930.57	549.43

- (d) and (e) ₹ 802 crore has been disbursed (since inception) from USOF for development of telecom infrastructure in rural and remote areas of Rajasthan. The details are given in the Statement.