

# Satellite Communication Infrastructure and support to Space Missions

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Department of Telecommunications announced and implemented Satellite Communication Reforms-2022 to facilitate the ease-of-doing business, streamlining a number of processes and rationalizing various charges.

Also, the Space Sector reforms announced in 2020, enable larger participation of Non-Government Entities (NGEs) for building/leasing, owning and operating the satellite systems for providing satellite-based services. The Government of India, as part of its 2020 space sector reforms, established an autonomous nodal agency, namely Indian National Space Promotion and Authorization Centre (IN-SPACe) under Department of Space (DOS), to promote and oversee private sector participation in space activities. Various measures to encourage and hand hold private sector have been announced and implemented by IN-SPACe, such as Seed fund Scheme, Technical Centre, Design Lab for NGEs, Skill Development in Space Sector, ISRO facility utilisation support, Technology Transfer to NGEs, creation of IN-SPACe Digital Platform to connect with all the stakeholders of space ecosystem etc.

It is envisaged that the infrastructure created will also support the space missions.

Department of Telecommunications (DoT) has launched the Telecom Technology Development Fund (TTDF) Scheme to promote and fund research and development (R&D) in communication technologies, fostering collaboration between academia, start-ups, research institutes, and industry to enhance the telecom ecosystem in India. This is also likely to support development of advanced antenna systems.

To encourage indigenization, Department of Telecommunications issued instructions on 05.05.2025 which inter-alia, includes that the licensee having Global Mobile Personal Communication by Satellite Service (GMPCS) authorization under Unified License (UL), will aim at indigenisation to a level of at least 20% of their ground segment of the satellite network that is established at the end of 5 years post the date of launch of commercial operations.

It is envisaged that these initiatives will enhance the diffusion of space technology and strengthen the space sector infrastructure including space communication network, satellite mission support and technological self-reliance.

This information was given by the Minister of State for Communications and Rural Development Dr. Pemmasani Chandra Sekhar in a written reply to a question in the Lok Sabha today.

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