

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS**

**RAJYA SABHA
UNSTARRED QUESTION NO. 2098
ANSWERED ON 18TH DECEMBER, 2025**

PROGRESS OF TTDF SCHEME

**2098# SMT. RAMILABEN BECHARBHAI BARA:
SHRI NARAYANA KORAGAPPA:**

Will the Minister of Communications be pleased to state:

- (a) the main objectives and focus areas of Telecom Technology Development Fund (TTDF) during the current year, particularly with respect to development of indigenous telecom technologies and solutions for rural and remote connectivity;
- (b) the number of projects sanctioned under TTDF till date, including details of funds allocated, research institutions and industry partners involved and the technology domains addressed;
- (c) the present status of 5G and 6G testbeds supported through TTDF;
- (d) the steps taken to strengthen collaboration between academia, start-ups, MSMEs and telecom industry bodies through TTDF-supported programmes; and
- (e) the measurable progress achieved, so far, under TTDF?

ANSWER

**MINISTER OF STATE FOR COMMUNICATIONS AND RURAL DEVELOPMENT
(DR. PEMMASANI CHANDRA SEKHAR)**

- (a) Telecom Technology development Fund (TTDF) Scheme was launched on 1st October 2022. The scheme aims to bridge digital divide by developing and manufacturing the state-of the-art indigenous technologies for rural and remote areas.
- (b) As on 10.12.2025, 136 projects amounting to Rs 542.22 crores have been approved under Telecom Technology Development Fund (TTDF) Scheme to different IITs, NITs, MSMEs, startups and research institutions. Focus areas of TTDF are telecom technologies including 5G and 6G technologies, Internet of Things (IoT), Optical Communications, satellite-communication, Quantum Communication Indigenous core networks and open RAN.
- (c) TTDF has approved a project for establishment of 6G test bed at SAMEER (Society for Applied Microwave Electronics Engineering & Research)- Kolkata, an autonomous R&D body under Ministry of Electronics & Information Technology (MeitY) with three other consortium members namely, IIT-Madras, IIT- Guwahati and IIT-Patna. This test bed project is ongoing and has already developed an indigenous prototype.
- (d) TTDF Scheme encourages collaboration between domestic companies/start-ups, academic & research institutions, and MSMEs. Applicants may partner as a consortium of the above entities. This consortium-based model helps combine complementary strengths- academic institutions bring research knowledge, whereas, start-ups and MSMEs bring agility and innovation, while established industry players contribute manufacturing, scaling, and real-world deployment experience.
- (e) As on 10.12.2026, a total of 26 patents have been filed, 36 Contributions have been made for development of telecom standards and 48 Publications have been made in various journals & conferences.
