

5G

CALL FOR PROPOSALS:

"FROM CONNECTIVITY GAPS TO SMART SOLUTIONS: DESIGNING 5G NETWORKS FOR RURAL INNOVATION – 5G INTELLIGENT VILLAGES" TELECOM TECHNOLOGY DEVELOPMENT FUND (TTDF)

Overview:

Objective: Support R&D in telecom products and technologies to create 5G Intelligent Villages, uplifting rural communities by addressing agriculture, education, healthcare, governance, and sustainability.

Eligibility: Indian companies/start-ups, R&D institutions, academic institutions (not subsidiaries of foreign companies).



FOCUS AREAS:

NETWORK DEVELOPMENT:

- Install gNodeBs (gNBs), Core, and Fixed Wireless Access (FWAs) in villages without 5G coverage.
- FWAs to act as Wi-Fi hotspots at schools, hospitals, Panchayat offices, industries.

WI-FI ROAMING:

- Provide seamless internet services with roaming capabilities across villages.

USE CASES:

- Agriculture, health, education, smart panchayat using CCTV, drones, health ATMs, air quality monitors, RFID, health sensors, AR/VR, IoT devices, water/weather/soil sensors, GPS trackers, HD cameras, interactive whiteboards, health pods.

COMMON INTELLIGENT-VILLAGE APPLICATION SYSTEM:

- Unified e-village platform on a Common AI Platform Portal with Intelligent Displays/Dashboards.
- Extend to district administration.

SMART HEALTH:

- Health ATMs and mobile healthcare units for accessible and efficient medical care.

SMART AGRICULTURE:

- Soil health monitoring, crop management, livestock management, aquaculture with advanced technologies.

SMART EDUCATION:

- Interactive whiteboards, AR/VR labs, IoT sensors for personalized learning and vocational training.











SMART PANCHAYAT:

- Enhanced village governance, resource management, and efficient local governance.

NETWORK SLICING FOR SECURE TRANSACTIONS:

- Develop UPI prototype and deploy AUSF/PCF for secure financial transactions and minimizing cyber-attacks.

PROPOSED VILLAGE LOCATIONS:

-  Dharmaj, Dist. Anand, Gujarat
- Ramgarh Urf Rajahi,
Dist Gorakhpur, Uttar Pradesh 
- Anandpur Jalbera, Dist Ambala,
Haryana 
- Bajargaon, Dist Nagpur,
Maharashtr 
- Bhagwanpura, Dist Bhilwara,
Rajasthan 
- Dablong, Dist Nagaon,
Assam 
- Raosar, District Ashoknagar,
Madhya Pradesh 
- Aari, District Guna,
Madhya Pradesh 
- Banskhedi, District Shivpuri,
Madhya Pradesh 
- Burripalem, District Guntur,
Andhra Pradesh 

SUBMISSION DEADLINE:

31.07.2024

**WHERE TO
APPLY**

