

# High-speed internet connectivity

Telangana



# State-led BharatNet initiative in Telangana

## Project Background

This case study enumerates how STL is collaborating to roll out optical fibre and network infrastructure from Telangana Fiber Grid Corporation Ltd. (T-Fiber). This enables affordable and high-speed broadband connectivity supporting the vision of 'Digital Telangana' to 6 million rural citizens in the state of Telangana

## Challenges Faced and Mitigated

- Geopolitical constraints
- Establishing secure networks in tough terrains
- Transportation of heavy material into the rural regions
- Massive scale established in a densely populated city
- Brownfield project along the water pipeline route
- Multiple stakeholders and on-ground coordination
- Capex constraints
- Multiple technologies like MPLS, DWDM, GPON & Wireless

## STL Solution

STL has helped the Government of Telangana in designing, building, and managing a rural broadband network across 3,000 Gram Panchayats in Telangana. Through the STL's Fibre Deployment Services method, enormous deployment challenges have been overcome and deployed network design using infrastructure synergies. With the implementation of IP MPLS architecture along with realistic planning and preparation for worst-case scenarios, STL achieved top-quality rollouts across the state.

We are working relentlessly to provide a highly secured network to every rural part of Telangana with the OFC deployment along water pipeline routes under Mission Bhagiratha. Especially in this project, we have routers which are powered by solar panels.

## Impact Created

With our unique STL solution, we boosted high-speed internet across the state of Telangana. This project will help connect 23 million people with the government to government, government to citizens' services and the range of their applications. This robust and seamless IT ecosystem has strongly boosted multiple economic activities including the creation of employment for the youth, the development of opportunities for IT export, increase in productivity through the use of automation.



**Digital** inclusion in  
rural areas



**38,000 km**  
of Optic fibre network



**47 lakh households**  
impacted



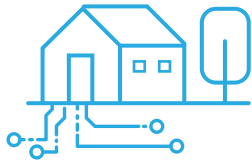
Increased  
**digital literacy**



**Improving**  
consumption **experience**



**8778** Gram  
Panchayats **connected**



**End-to-end fibre network**  
**deployment** across Mandal  
and Gram Panchayats



**High-speed broadband**  
**connectivity to ~ 84 lakh**  
**households** across the state



**SDN-ready**  
state-wide network