

Largest intrusion-proof innovative defence network

Jammu, Kashmir and Leh

Project Background

This case study enumerates how STL deployed 9,000+ km of the Network for Spectrum (NFS) project and built a communication network exclusively for the Indian Armed Forces. This project is one of the most significant and largest intrusion-proof network deployments globally.

Challenges Faced and Mitigated

- Disruption in the communication of the Indian Army
- Geopolitical constraints
- Climatic conditions - sub-zero temperatures, heavy snowfall
- Establishing secure networks in rugged terrains
- Transportation of heavy material
- Prone to Natural Calamities (Landslides)
- Require Continuous Monitoring at the location
- Fibre Maintenance Challenges
- Scarcity of skilled manpower
- Multiple stakeholders and on-ground coordination

STL Solution

STL has developed a highly innovative design solution that addressed both technology requirements and deployment challenges - Ribbon Fibre Intrusion Proof Cable with G.655 and G.652D fibres. Through STL's Fibre Deployment Services method, enormous deployment challenges have been overcome. With a bottom-up approach along with realistic planning and preparation for worst-case scenarios, STL achieved superior rollouts in one of the most challenging terrains in the world.

We realigned the critical portion of the OFC route to the other side of the river to minimise the disruption in the network as well as the critical maintenance of OFC. In this project, 100% of the network is built on STL fibre.



Impact Created

With our unique solution, we boosted the communication network for the Indian Army by providing faster uptime, fault restoration, enhanced national operational preparedness and real-time connection to the highest battlefield in the world.



9,000+ km
Optic fibre network



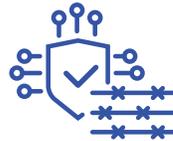
25+ years
of network
life



5X commissioning
speed



SLA-MTTR:
6 hours



Provided a
highly secured network
to the last mile of LOC

Customer Testimonial

“At the onset, I would like to compliment you for having a wonderful team at Sterlite Technologies Ltd, Trikuta Nagar Jammu. I am sure it is because of the vision of your firm as a thorough professional providing services to the Army as part of NFS. It’s really commendable to see the dedication and commitment towards their work ensuring completion and maintenance thereafter. Please accept my sincere gratitude for the entire team.”

Officer Commanding, Indian Army