



**DETAILED PROJECT REPORT
FOR
PROVIDING OFC NETWORK**

Company Overview

Vindhya Telelinks Limited are the flagship company of MP Birla group and had been one of the leading companies in telecom sector since 1983. The company has infrastructure provider category licence (IP-1 licence) issued by department of telecommunications (DOT) vide registration certificate no.342/2010 dated 11-01-2010 to lay optical fibre cable network infrastructure and lease out dark optical fibre/duct space to any telecom service provider in India.

Proposal for Laying Underground OFC Cable

It is proposed that OFC is also been laying in the Rural area of District Kathua through forest area, to providing mobile/**4G network** connectivity.

Detailed Brief

Vindhya Telelinks limited is proposed to lay underground optical fibre cable from **Machedi –Thall-Bhallori in Kathua**. The implementation of this project will be undertaken by the Vindhya Telelinks Ltd. This project will form the backbone of optical network infrastructure and connect the local population to the digital world.

- 1) This project is widely helpful for local population in Bilawar-Machedi-Thall-Bhallori-Bani and surrounding villages because it will provide developed Infrastructure and help the Telecom Operators to provide high speed internet services. Bank accounts will be given priority at individual level. People will be provided with safe and secure cyber space in the country. It will take a part of the Governance and Services in which Government services will be available online where citizens will be ensured easy access to it. Transactions will be made easy through electronic medium. Digital empowerment will be the most important factor of the Digital India initiative to provide universal digital literacy and make digital sources easily accessible. To take a step with government aims to provide internet services to region.
- 2) It will ensure that all villages will cover through mobile connectivity. The aim is to increase network penetration and cover gaps in all villages it also aims to improve processes and delivery of services through e-Governance

Telecom coverage

Machedi-Thall-Bhallori-Bani have basic mobile 2G Coverage. However the network is congested with no coverage in some parts of Villages.

Issue in Present Telecom connectivity

The issue is present telecom connectivity are absence of reliable communication and low bandwidth availability.

Presently the said villages are provided telecom connectivity on GSM. The GSM communication can offer limited bandwidth depending on the availability of transponders. It has high latency in comparison to other communication media.

Education

By providing reliable telecom connectivity a universal access to education with quality learning and teaching by means of tele-education, can be ensured. The subsequent increase in literacy rate shall reflect the increase in the GDP of the region.

E-Governance

With the vision of Digital India given by Honourable PM, and implementation of e-governance services to ensure a good administration, a reliable telecom connectivity is essential.

Disaster Management

The absence of a strong and reliable communication network with the mainland has been acutely felt at the time of natural disasters and calamities. A reliable telecom network is essential for implementing disaster management in isolated areas.

E-commerce & Internet Access

There is an increasing trend of commercial activity and connectivity over mobile phones which requires high bandwidth for making electronic commerce (e-commerce) transactions and access to social media connectivity through internet access.

Gram Panchayats (GP)

There are Gram Panchayats in **Machedi-Thall-Bhallori**. The Gram Panchayat offices as per BBNL mandate also need to have Fiber connectivity (OFC).

Scope

- 1) The scope of work fall under J&K forest Department is as under:-
 - a) Machedi-Thall-Bhallori

Execution Methodology

Underground method - In this method a trench would be dug as manual methods having following specifications and would be along the approved alignment.

- Width of the trench: 0.40 Mtr at top and 0.30 Mtr at the bottom.
- Depth of the trench: Maximum of 1.20 Mtr and Minimum of 0.60 Mtr depending upon the soil condition (Soft Soil, Soft Rock or Hard Rock).

Axinder