Nepal fiber optic cable broken



Overview

Directives for laying and maintaining Optical Fibre NetworkThe instances of damaging existing optical fibre network by another Licensee in course of instal.

Key Takeaways

Recent fiber optic cable breaks in Nepal have caused localized and nationwide internet disruptions, particularly affecting areas like Birgunj, Bhairahawa, and Lalitpur.

Recent Incidents and Impact

Nepal has experienced multiple fiber optic cable disruptions, which have led to significant internet outages. For instance, in February 2025, fiber cuts in Airtel's network in Birgunj and Bhairahawa caused a nationwide internet shutdown lasting nearly an hour, affecting ISPs and end-users across the country. The outage initially raised concerns about upstream bandwidth issues from India and unpaid dues, but the root cause was confirmed as physical damage to fiber cables.

Such incidents highlight the vulnerability of Nepal's telecommunication infrastructure to cable breaks.

Causes of Fiber Cable Breaks

Fiber optic cables in Nepal are laid in various forms, including direct-buried, underground-ducted, and overhead installations. Breaks can occur due to construction activities, accidental damage by other licensees, natural events, or maintenance errors. The Nepal Telecommunications Authority (NTA) emphasizes the importance of proper procedures and record-keeping to minimize such disruptions, as damage can lead to financial loss and service degradation.

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Repair and Maintenance

Repairing fiber optic cables involves specialized equipment and expertise. Technicians use tools like OTDR (Optical Time Domain Reflectometer) to locate breaks, Optical Power Meters to measure signal loss, and splicing machines to reconnect fibers. Companies like Technovate and Eman Communications provide end-to-end solutions, including installation, troubleshooting, and dismantling of fiber networks.

Rapid response is critical to restore services, though underground or extensive cable damage may require longer repair times.

Preventive Measures

To reduce future disruptions, NTA mandates that all licensees maintain detailed records of their fiber networks and follow standardized procedures for laying and maintaining cables. Coordination among ISPs and adherence to safety protocols are essential to prevent accidental damage and ensure network redundancy, which helps maintain service continuity during incidents. In summary, fiber optic cable breaks in Nepal can cause widespread internet outages, but proper maintenance, rapid repair, and regulatory oversight are key to minimizing their impact and ensuring reliable telecommunication services.

Article Content

Directives for laying and maintaining Optical Fibre Network

The instances of damaging existing optical fibre network by another Licensee in course of installing its own optical network are on the rise. Similar cases could have also happened to other types of

Optical Fibre Network Guidelines

The document provides directives for laying and maintaining optical fibre networks in Nepal. It outlines procedures that licensees must follow, such as obtaining permission before laying cables and

Nationwide internet outage raises concerns over outstanding dues

This marks Nepal''s second nationwide internet shutdown, following a similar incident in May 2023. The recent disruption was reportedly caused by fibre cuts in Airtel''s network in Birgunj

Nepal Gen Z Protest Hit Telecom and ISP Infra

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Fires, vandalism, and destruction during the demonstrations damaged towers, underground cables, and distribution lines—leaving millions of users struggling with unreliable

Vianet Internet And TV Services Partially Restored Following Fire ...

Vianet''s technical team has completed repairs on most fiber optic cable breaks that occurred during the fire incidents. The extensive fiber network damage required specialized repair

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Learn how to repair a damaged or cut fiber optic cable with step-by-step instructions, essential tools, and best practices. Restore your fiber cable quickly and ensure stable, low-loss

How to Find and Repair Breaks in a Fiber Optic Cable

Identifying and repairing these breaks swiftly and effectively is critical to maintaining network reliability. This guide provides a detailed roadmap for locating and fixing fiber optic cable

Red Sea cable cuts disrupt internet across Asia and the Middle East

KATHMANDU: Internet connectivity in several countries, including India, Nepal and Pakistan, was disrupted since Saturday following outages in subsea cables running through the Red

Fiber Optic Troubleshooting Guide: Problems, Tools & Solutions

This guide offers practical steps to troubleshoot fiber optic cable issues, covering common problems, key tools, and preventive measures to ensure stable performance.

How Internet works in Nepal?

Nepal''s ISP Fiber Network Backbone (Nepal''s National and International Fiber Network Map) We all use internet or what you call it as WiFi

Fiber Optic Cable Repair: Quick and Effective Tips

Learn practical fiber optic cable repair tips, common causes of fiber damage, essential repair tools, and a lot more to restore network performance

Nepal Completes 1,600 Kilometers Of Optical Fiber

The Nepal Telecommunications Authority (NTA) revealed that under the optical backbone network expansion project, 1,600 kilometers of fiber optical

Nepal''s ISP Fiber Network Backbone (Nepal''s National and ...

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So, I have been thinking lately about how the big ISPs of Nepal are distributing or connecting different districts via Fiber cable ? I mean of course everybody knows that they are connecting whole country

Repairing Fiber Optic Cable: Solutions for Fixing Cut or

Learn how to repair cut or damaged fiber optic cables with our step-by-step guide. Find solutions and tools for fixing your damaged fiber optic cable.

Nepal''s Own Fiber Cable To The Sea Could Soon Be Possible

Last Updated on November 11, 2021 Nepal could soon lay its own optical fiber cable to the sea which could drive down the internet costs in Nepal. Nepal government has urged NTA to proceed with the

Fiber Optical Cables | Cable Tech Nepal

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Best Fiber-To-The-Home (FTTH) Internet Service Providers Nepal

A fiber optic cable is made up of a bundle of pure glass threads, each about the diameter of human hair. This state-of-the-art network can carry data signal via light waves instead of electricity

China links Nepal with optical fibre to end ''India dependence''

State-owned Nepal Telecom (NT) said its optical fibre network has been connected to China Telecom Corporation Limited. "After establishing connection, we conducted technical test

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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