

National Optical Cable in 2012



Article Overview

The National Optical Fibre Network (NOFN) was approved in 2012 to provide broadband connectivity to 2.5 lakh village Panchayats in India, with Bharat Broadband Network Limited (BBNL) established to execute the project.

Project Approval and Objectives

The Government of India approved the creation of the National Optical Fibre Network (NOFN) in 2012, aiming to extend broadband connectivity to all 250,000 Gram Panchayats across the country to support e-governance and digital services . The initiative was intended to enable applications in e-health, e-education, and e-governance, ensuring non-discriminatory access to broadband for all telecom service providers . The project was initially approved by the Union Cabinet in October 2011, with formal incorporation of the executing body, Bharat Broadband Network Limited (BBNL), on 25 February 2012 .

Organizational Setup

BBNL was created as a Special Purpose Vehicle (SPV) under the Companies Act, 1956, to manage the rollout of the optical fibre network. The project planned to leverage existing fibre infrastructure from public sector undertakings such as BSNL, RailTel, and Power Grid, while also allowing private sector participation at a later stage . The Prime Minister's Office (PMO) established a coordination committee to ensure that all government departments could deploy services on the network and to map out the framework for delivering e-services to Panchayats

Article Content

Jan 30, 2026

Bharat Broadband Network

On 25 October 2011, the Government of India approved the National Optical Fibre Network (NOFN) initiative, later renamed as

Sep 12, 2025

Fibre-optic Link Around the Globe

Fibre-optic Link Around the Globe (FLAG) is a 28,000-kilometre-long (17,398 mi; 15,119 nmi) fibre optic mostly- submarine

Dec 20, 2025

Impediments in Building the Digital Economy: Case of the National ...

In Jan 2012, the government had formed a special purpose vehicle for the same, called Bharat Broadband Network

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World Record Achieved in Transmission Capacity and Distance: With

An international research team led by the Photonic Network Laboratory at the National Institute of Information and

Apr 12, 2026

BRICS Cable

Planned optical fibre submarine communications cable system The BRICS Cable was a planned optical fibre submarine

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Fiber Optics

Or to put it in data terms, coaxial copper cable carried millions of bits, or megabits, per second; early 1980s fiber optic

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Explore a range of FIBER OPTIC CABLE and shop high quality and sustainable FIBER OPTIC CABLE at Nassau National Cable at

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Optical networking

Optical networking is a means of communication that uses signals encoded in light to transmit information in various types of

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The hidden network that makes the internet possible

In 2012, a team of researchers set a world record, transmitting 1 petabit of data—that's 10,000 hours of high-def video— over a fifty

Oct 24, 2025

Layout 1

In 2012, the Digital Empowerment Foundation (DEF) implemented the National Digital Literacy Mission (NDLM) programme, a joint

Dec 07, 2025

First phase of MTN national fibre network live – MyBroadband

MTN announced today (2 July 2012) that their national long distance fibre optic network, which is built in collaboration

Jul 14, 2026

List of terrestrial fibre optic cable projects in Africa

This is a list of terrestrial fibre optic cable projects in Africa. While submarine communications cables are used to connect countries

May 02, 2026

Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are

Apr 22, 2026

Bharat Broadband Network

Make in India Both the optical fibre and the Gigabit-capable passive optical network broadband equipment, made to account for the

Feb 07, 2026

Submarine Cables | National Oceanic and Atmospheric Administration

They also support critical commercial, economic, and national security endeavors. and they carry a majority of civilian, military, and

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National Optical Fibre Network in India _1_

National National Long Long Distance Distance Operating Operating National National
Optic Optic Fibre Fibre Network Network

Aug 23, 2025

Wired World: 35 Years of Submarine Cables in One Map

Watch the explosive growth of the global submarine cable network, and learn who's
funding the next generation of cables.

Nov 11, 2025

White Paper on China International Optical Cable Interconnection

International optical cables are vital to global communications. With the vast majority
of international data transmission occurring

Oct 01, 2025

PMO push for broadband project

NEW DELHI: The Prime Minister's Office has dialed into the Rs 20,000-crore national
optic fibre cable project, which

Jan 07, 2026

Tata Communications completes world's first wholly owned cable

Mumbai (BSE) & New York (NYSE) – 22 March 2012 – Tata Communications, a leading
provider of The New World of

Jul 30, 2025

NG TS 3.08.24

This Specification is for reinforced, all dielectric, multimode and single mode optical
fibre cable construction, for use in

Jul 02, 2026

The Year in Broadband, 2012: BroadbandBreakfast's Guide to the

The cable industry's push for DOCSIS 3.0 stands in contrast with Verizon's decision
to stop the expansion of its Fiber

Jul 01, 2026

The Coming Market for Optical Fiber and Cable

The market for optical fiber and cable is a critical piece of the broader optical components pie. Its installation is also the most labor

Jul 25, 2026

Indian Govt Approves Fibre Connectivity To Village ...

The Government of India has approved the scheme for creation of the National Optical Fibre Network (NOFN) to

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Google Tradutor

O serviço do Google, oferecido sem custo financeiro, traduz instantaneamente palavras, frases e páginas da Web do português para

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Submarine Cable Map

TeleGeography's comprehensive and regularly updated interactive map of the world's major submarine cable systems

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Fiber Map of the World 2026

Terrestrial fiber optic networks form the backbone of global telecommunications, linking major cities, data centers, and critical

Jan 21, 2026

BRICS Cable

The BRICS Cable was a planned optical fibre submarine communications cable system that would have carried telecommunications

Sep 15, 2025

Uttar Pradesh nod to national optical fibre network

LUCKNOW: The Uttar Pradesh cabinet on Tuesday approved the implementation of the National Optical Fibre Network

Dec 22, 2025

Fiber Optics Market Size Report 2024-2029 [234 Pages & 191 Tables]

Fiber optics players are focusing on leveraging new revenue sources such as FTTX, Data Center Interconnect (DCI), and subsea

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Submarine communications cable

These early cables used copper wires in their cores, but modern cables use optical fiber technology to carry digital data, which

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National Telecom Policy, 2012

National Telecom Policy, 2012 The National Telecom Policy, 2012 was approved by the Union Cabinet on May 31, 2012. The vision

Jun 20, 2026

National Optical Fibre Network

National rollout All the Service Providers like Telecom Service Providers (TSPs), ISPs, Cable TV operators etc. will be

Aug 19, 2025

Concept Paper on Optical Fibre and Cable in Indian Telecom Network

ul information about optical fibre cable and transmission network. We are thankful to Shri A K Singh, CGM BBNL New Delhi, Shri K P

Jul 03, 2026

Fiber Optic & Cable Standards Guide | FiberMania Standards

Fiber optic networks are built on well-defined standards that ensure quality, performance, and interoperability. This

May 17, 2026

Fiber Optic Cable Color Codes

Color codes are used in fiber optics to identify fibers, cables and connectors. In the photos above, on the

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