



सत्यमेव जयते

Department of Telecommunications  
Ministry of Communications  
Government of India



# 1st Annual Conference of ISPs - National Broadband Mission

12.06.2023

**Neeraj Kumar**

Mission Director & DDG

National Broadband Mission (NBM)

- About National Broadband Mission
- Centralized Right of Way (RoW) Portal - **GatiShakti Sanchar -RoW**  
Pending Applications & Policy
- PM GatiShakti National Master Plan Platform
- Call Before u Dig' (CBuD) Mobile app



राष्ट्रीय ब्रॉडबैंड अभियान  
National Broadband Mission



National Broadband Mission was launched on 17<sup>th</sup> December, 2019

# Vision



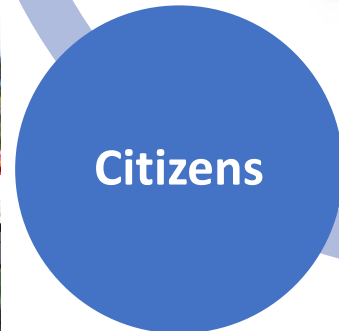
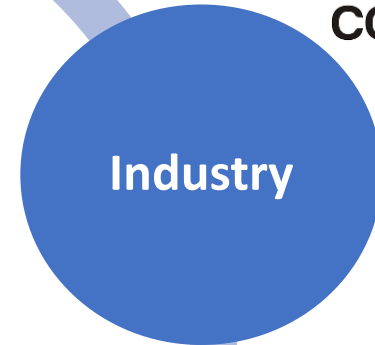
**To fast-track  
growth of digital  
communications  
infrastructure**

**To bridge the  
digital divide**

**To facilitate  
digital  
empowerment  
and inclusion**

**To provide  
affordable and  
universal access  
of broadband for  
all**

# Stakeholder



# Implementation Structure



1

- **Governing Council for Broadband**
- Chaired by Hon'ble Minister, Telecom

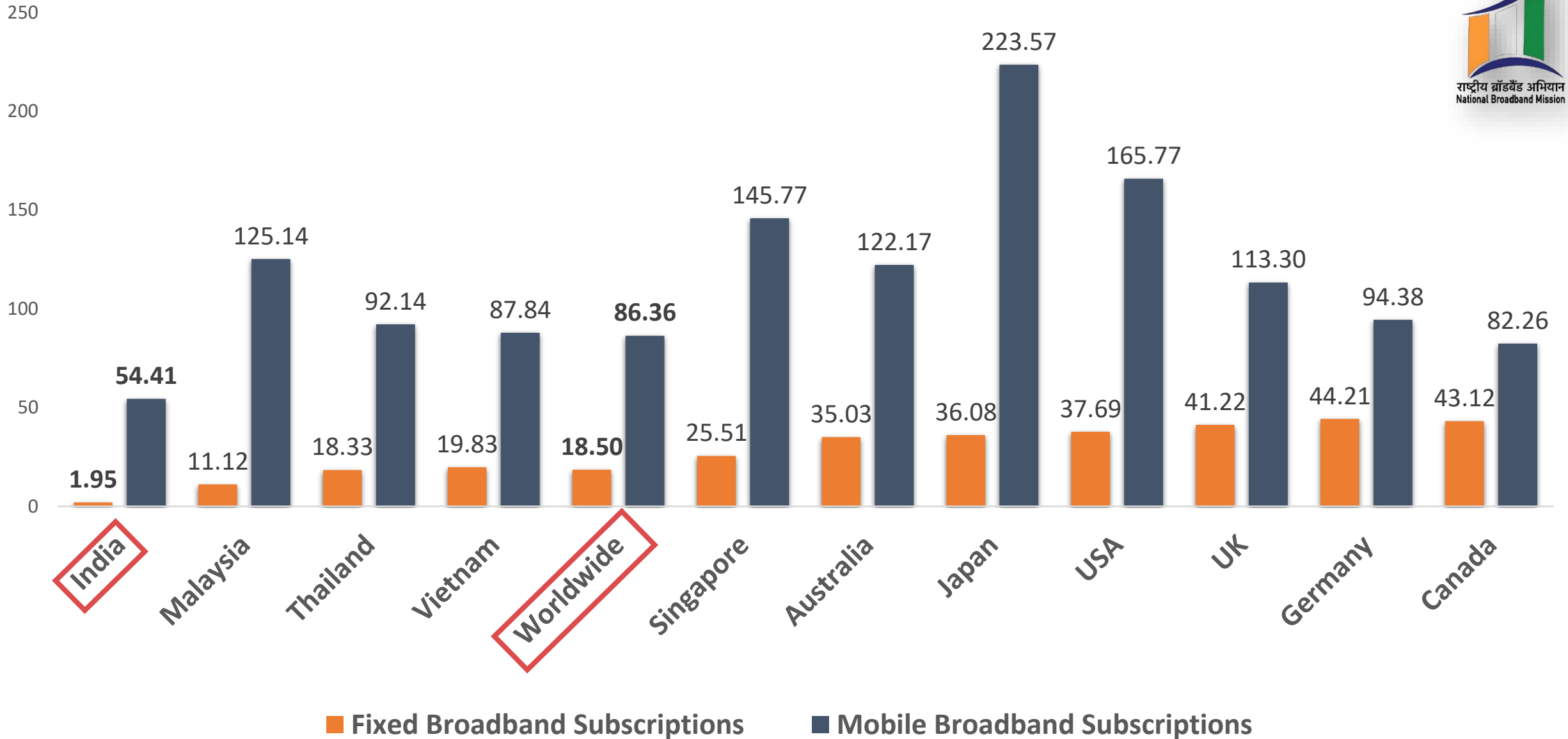
2

- **Broadband Steering Committee**
- Chaired by Secretary, Telecom

3

- **State Broadband Committee**
- Chaired by Chief Secretary

# Fixed & Mobile Broadband Subscriptions (per 100 People)



# National Broadband Mission – Deliverables



## DELIVERABLES

Broadband access to **all villages** by 2022

Availability of high speed broadband of 50 Mbps to all

Accelerate fiberisation, including of Telecom Towers & Mapping of Fiber

Enhance Connectivity & Quality of Service (QoS)

Facilitate Rollout of 5G & Strengthen 4G

Promote Make in India



## STRATEGIES



- USOF projects incl 4G saturation
- Bharatnet

- Policy to enhance broadband investment
- FTTH proliferation

- **ISPs numbers up from 1616 to 2405**
- Bharatnet expansion & Tower fiberisation

- 4G saturation and 5G rollout
- QoS Mission by TRAI and DOT

- 5G launched and being monitored
- 4G saturation under progress

- PLI & Design Linked PLI
- PMI

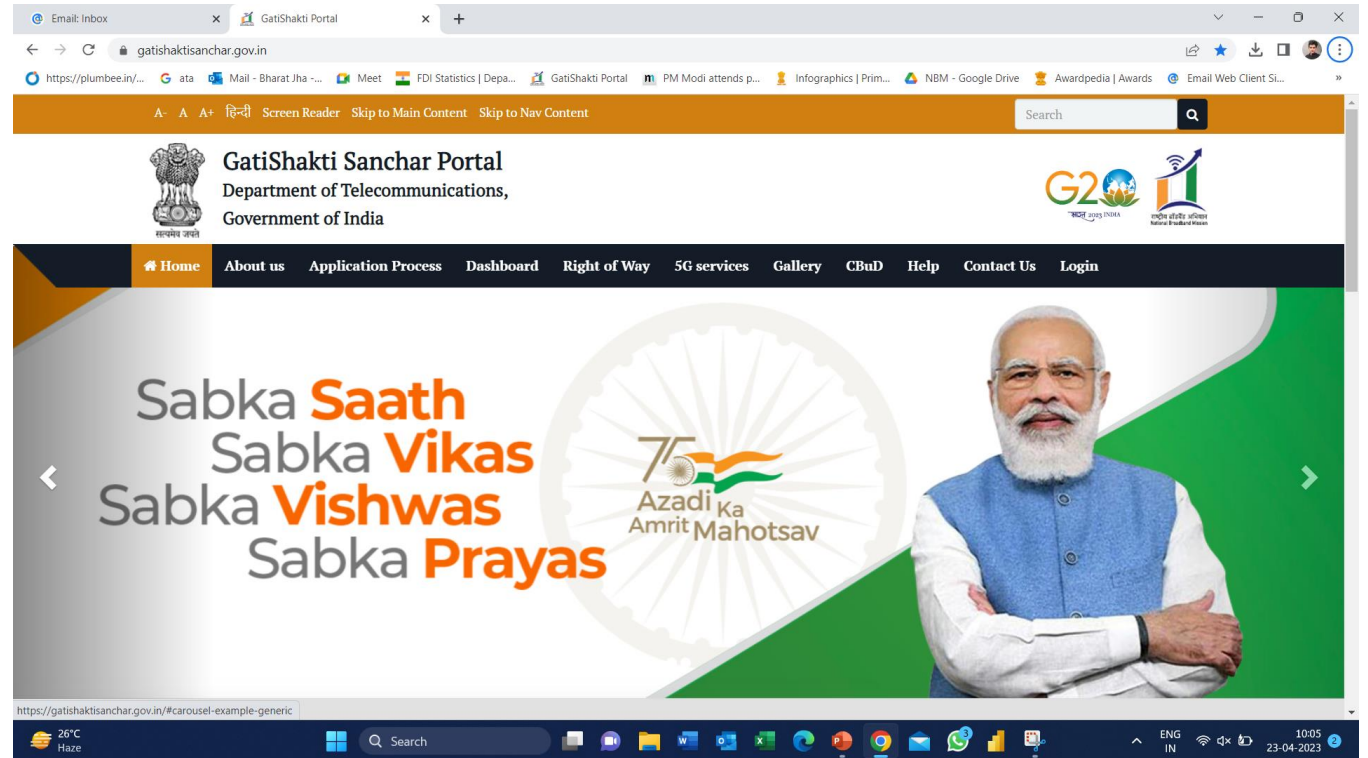


# Annual Implementation Plan

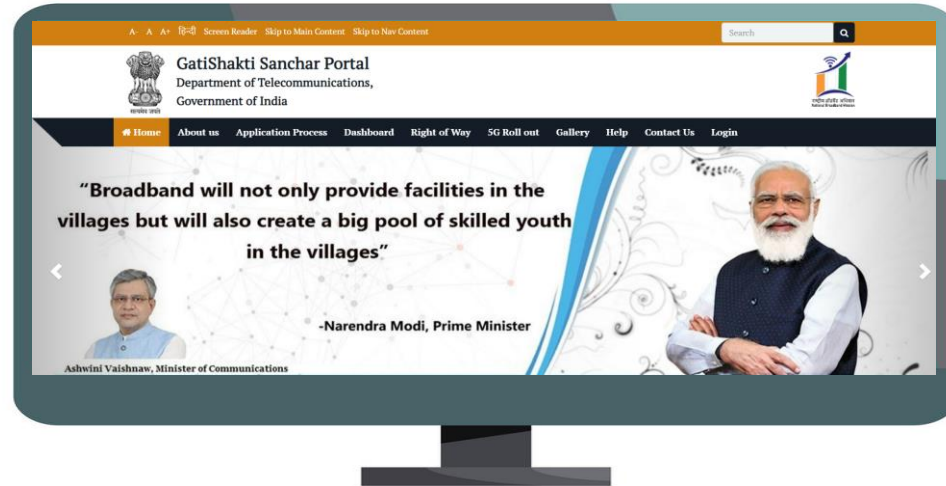


KPI	1-year (FY 2020-21)	2-year (FY 2021-22)	3-year (FY 2022-23)	4-year (FY 2023-24)	Status	5-year (FY 2024-25)
Broadband Connectivity to Villages (%)	50%	60%	100%	-	<b>93.21%</b> 31.03.2023	-
*Availability of broadband Speeds (Mbps)	4	10	25	30	Mobile BB- <b>36.35</b> Fixed BB- <b>51.12</b> 30.04.2023	50
Fiberization (Lakh KMs) Cumulative	24	27	30	40	<b>37.26 Lakh</b> 31.03.2023	50
Towers (in lakhs) Cumulative	7	8	10	12	<b>7.60 Lakh</b> 31.05.2023	15
Fiberization of Telecom Towers (%) Cumulative	35	45	55	65	<b>38.06%</b> 31.03.2023	70
Mapping of Fiber Cumulative	10%	40%	60%	80%	<b>83% (Govt. PSUs)</b> (08.06.2023)	100%

# Centralised Right of Way (RoW) Portal GatiShakti Sanchar



## Single Window System For RoW Permissions



- ▶ Single Platform for applying RoW permissions ([www.gatishaktisanchar.gov.in](http://www.gatishaktisanchar.gov.in)) created to transparently process the RoW applications and monitoring the pendencies in real time
- Launched on 14<sup>th</sup> May 2022 by Hon'ble Minister of Communications
- 36 States/UTs & 4 Central Min. (Railways, MoRTH, MoD, MoEFCC)
- Dashboard for monitoring of pending cases across India

## Features of GatiShakti Sanchar Portal



GatiShakti Sanchar Portal  
Department of Telecommunications,  
Government of India



Home

About us

Application Process

Dashboard

Right of Way

5G services

Gallery

Help

Contact Us

Login

# 1

### Single Portal

A Centralized Portal integrated with all the state portal. Provides a mechanism to access RoW portal of any state.

# 2

### Effective Monitoring

Report of all states is available. District wise Status can be tracked. Report include total number of Application Received, Approved, Rejected & Pending

# 3

### Orders and Circular

Orders, Policies and Circular of all states are available on a single platform

## GatiShakti Sanchar Portal -Advantage for TSPs/ISPs

**Telecom Service Provides, ISPs and other establishments who need to obtain RoW permissions from State Government are immensely benefitting because it is facilitating in:**

- Applying for RoW permission for any state of India at one place
- Centralized tracking of applications disposal status
- Automated alerts on application processing updates
- Centralized help desk availability (0755-2700802, email -support@gatishaktisanchar.gov.in)
- Faster approval of applications since pendency being monitored by DoT
- Faster rollout of services like 5G, Fiberization of Towers, Broadband connectivity to Citizens/Institutions

## GatiShakti Sanchar Portal-Advantage for Govt.-Central & State

- Another step in the direction of facilitating '**Ease of Doing business**
- Quick approvals will lead to:
  - **laying of more OFC** and thus may accelerate Fiberization
  - **Increasing Tower density**, and will enhance connectivity and **improve Quality of Service**
  - **Increased fiberization** of Telecom towers, thus better Broadband speeds
- Increased fiberization of Telecom towers, thus **better Broadband speeds &** Broadband will reach all villages.
- Institutions like hospitals, police stations, panchayat offices, schools and colleges, anganwadis etc. will get broadband connectivity.
- Availability of Broadband will facilitate the delivery of e-Governance services such as e-Health, e-education, e-commerce, cashless transactions etc. in rural areas.

## GatiShakti Sanchar Portal-Advantage for Citizens

### ■ **With better broadband connectivity Citizens can:**

- Easily access Government services
- Search for information online
- Undertake cashless transactions
- Participate in Nation building in rural areas
- Read online latest news
- Become politically aware
- Read about farming techniques
- Sell their produce online, sell their handicrafts online
- Read about products
- Services and jobs available in nearby cities
- Buy household necessities online
- Access various Government services being provided online through various websites and Mobile Apps viz. BHIM, UMANG, Digi Locker etc.

## Yearly - Disposals

6/8/2023 12:36:17 PM  
Last Data Refreshed

Overview - State wise

Overview - District wise

Overview - Pendency

**Yearly Disposals**

Disposal Time Analysis

Monthly App Handling

State wise App Handling

Month wise App Growth

State Wise - Applicants

Applicants Distribution

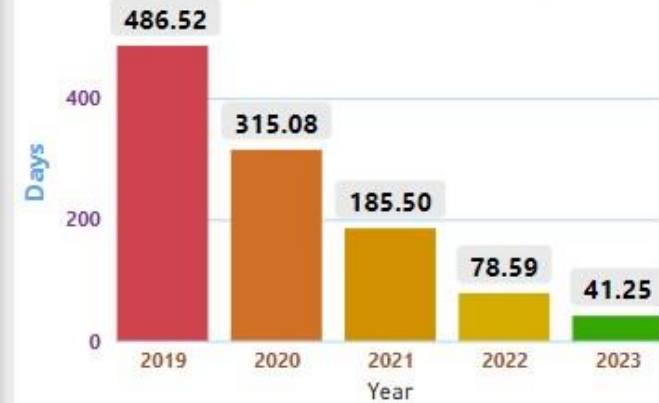
Tower Charges

RoW Charges

### Monthly-Average no of days to dispose apps



### Yearly - Average no of days to dispose apps



Select State

- Select all
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh



# Right of Way(RoW) Policy Status



S. No.	Telecom Infrastructure- Underground OFC/ Aerial OFC/ Poles	Indian Telegraph Right of Way Rules (2016, 2021 & 2022)	Policy Adopted/ implemented by States/ UTs
1	<b>Underground Opticle Fibre Cable</b>	<ul style="list-style-type: none"> <li>• One time fee- INR 1000/km</li> <li>• No Compensation</li> </ul>	<b>All states/ UTs adopted</b> except Delhi and Kerala
2	<b>Aerial Opticle Fibre Cable</b>	<ul style="list-style-type: none"> <li>• One time fee- INR 1000/km</li> <li>• No Compensation</li> </ul>	<b>Adopted by 17 states/ UTs</b> of Assam, Chandigarh, DDNH, Goa,Gujarat, J&K, Ladakh, Lakshdweep, Maharashtra, Manipur, Puducherry, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, West Bengal (INR 5,000 and 10,000/km)
3	<b>Pole</b>	<ul style="list-style-type: none"> <li>• Establishment of Pole-1000 (one-time), with no compensation to be charged</li> <li>• Usage of Pole for installation of Telegraph Line (Aerial OFC)- INR 100/ Annum</li> </ul>	<b>Adopted by 16 States/ UTs</b> of Andhra Pradesh, Assam, Chandigarh, Goa, Jammu and Kashmir, Ladakh, Lakshadweep, Maharashtra, Manipur, Puducherry, Rajasthan, Sikkim, Tripura, Uttarakhand, West Bengal and Jharkhand

# Indian Telegraph ROW Rules, 2016 and Amendment(2022) For Faster 5G Rollout

## Fee/Charges



## Tower



## OFC



## Small Cell-5G



## Street Furniture-5G

### Administrative Charges

10,000/Tower

For Private property, only intimation

Underground  
1000/KM

Overground  
1000/KM

NIL

Self Establishment-  
1000/  
Pole

### Compensation Charges

Once/annually  
(Decided by appropriate authority)

NIL

Urban-  
300/Pole/Yr

Rural-  
150/Pole/Yr

Compensation for self established Pole - Nil

Usage of Street Furniture for telegraph line- 100/Pole/Yr

### Restoration Charges

As per CPWD rate

As per State PWD rate

By Self-BG 20/% of restoration cost

By Local Body- As per CPWD/PWD rate

### Establishment of Telecom infrastructure on Private Property. :-

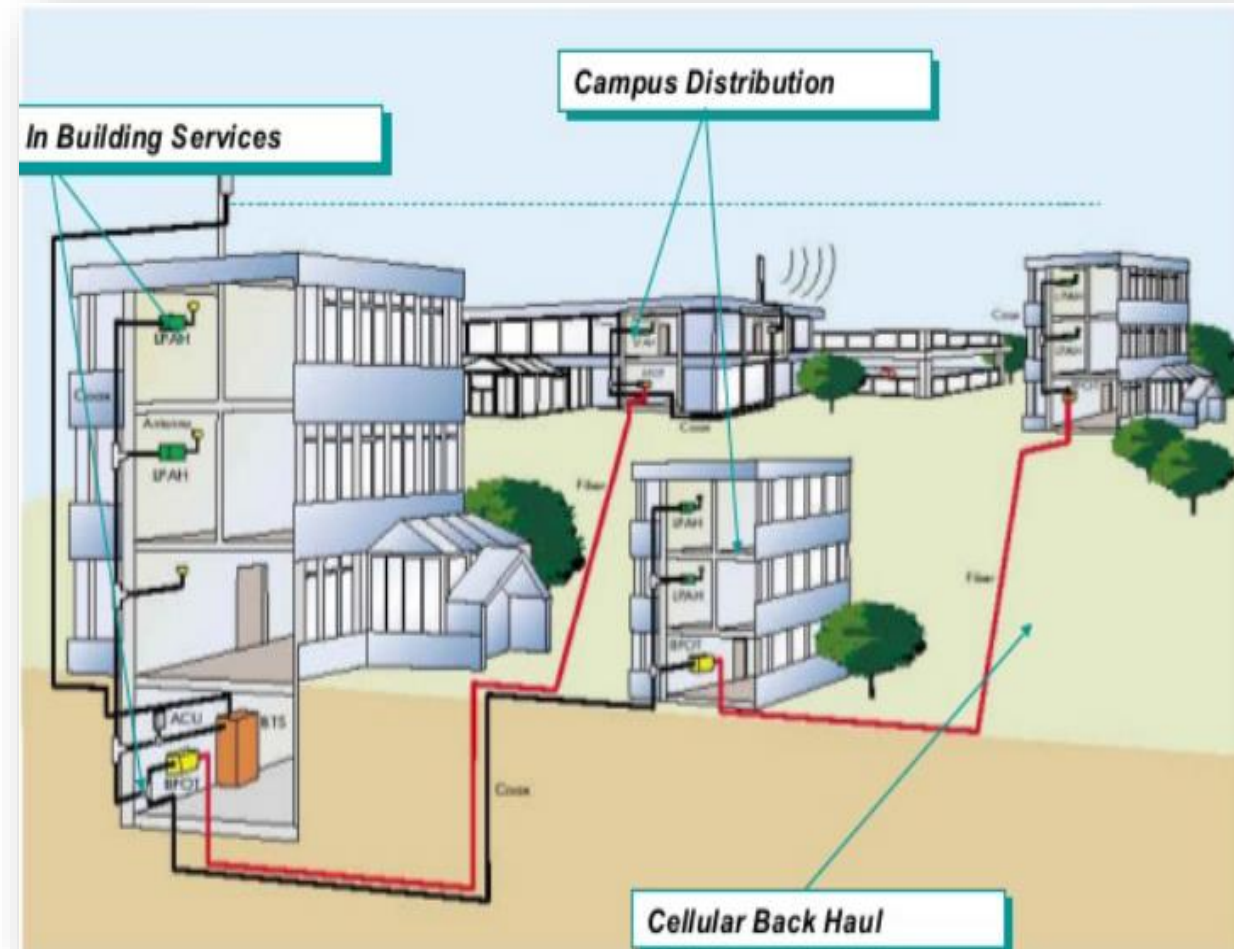
- No Permission required for private property
- Only Intimation required for Private Property

( Structure Suitability required )

# Addendum To Model Building Bye-Laws, 2016



- ▶ MoHUA has issued an addendum to Model Building Bye-Laws, 2016 on “*In-building Access by Telecom Service provider*”
- ▶ It aims for creation of common telecom Infrastructure & IBS, Making cities smarter through In- Building (IBS) and Gated Buildings Solutions (GBS)
- ▶ States/UTs may incorporate addendum in the States bye laws- will help reduce wire clutter in residential colonies



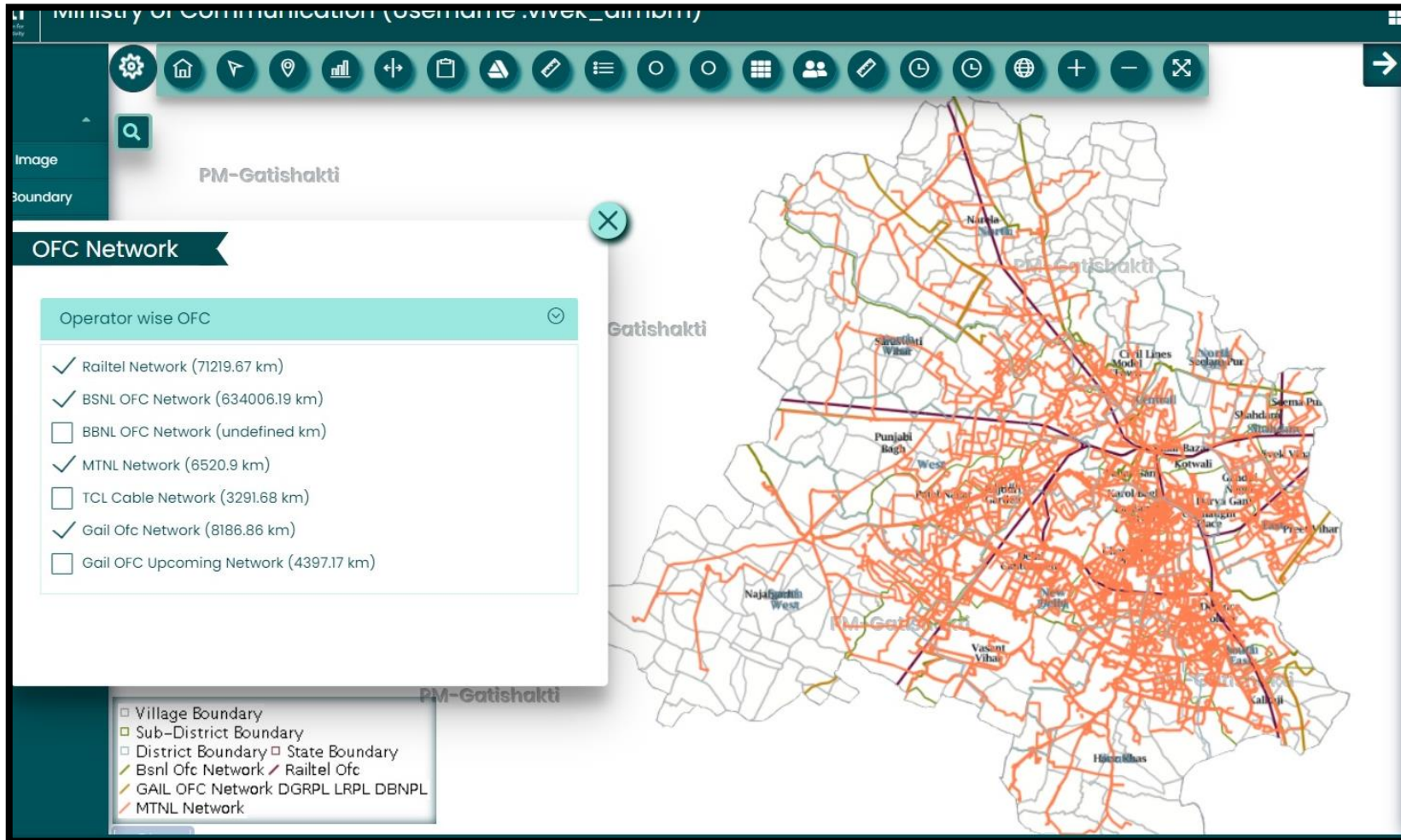
**12 states/ UTs** (Andhra Pradesh, Assam, Goa, Jammu and Kashmir, Jharkhand, Kerala, Maharashtra, Manipur, Punjab, Rajasthan, Uttarakhand and Puducherry) **incorporated provisions of addendum to Model Building Bye-laws, 2016 published by MoHUA in March-2022**



# DoT - PM GatiShakti NMP

<https://nmp.pmgatishakti.gov.in/telecom/login>

# Telecom Data Mapping OFC



(~11.5 lakh RKM from PSUs of Railtel/ BSNL/ BBNL/ MTNL/ TCL/ GAIL mapped)

~ 21000 RKM OFC laid by Telangana, Jharkhand, AP, Kerela and Rajasthan states government institutions has been mapped and laid by other state government institutions is being mapped progressively.

# Telecom Data Mapping Towers/ BTSs



## Mobile Tower

- Chandigarh (1124)
- Dadra and Nagar Haveli,
- Delhi (23644)
- Goa (1647)
- Gujarat (44778)
- Haryana (23764)
- Himachal Pradesh (8817)

- Fiberized Mobile Tower 
- Non-fiberized Mobile Tower 

Towers (with BTSs of different operators)  
State wise - Fiberized & non-fiberized  
(Microwave or Satellite)

**7.3 lakh towers and 23.5 lakh BTS mapped**

5G Street Furniture

Chandigarh

- Bus Shelters 5G
- Bus Terminal 5G
- Electric Poles 5g
- Central Gov Property 5g
- State Gov Property 5g
- Traffic Lights 5g

## Street furniture – for 5G roll out

- Street furniture of Chandigarh UT already mapped and other states are being asked to map in DoT defined format.

## SHORTEST DISTANCE TOOL

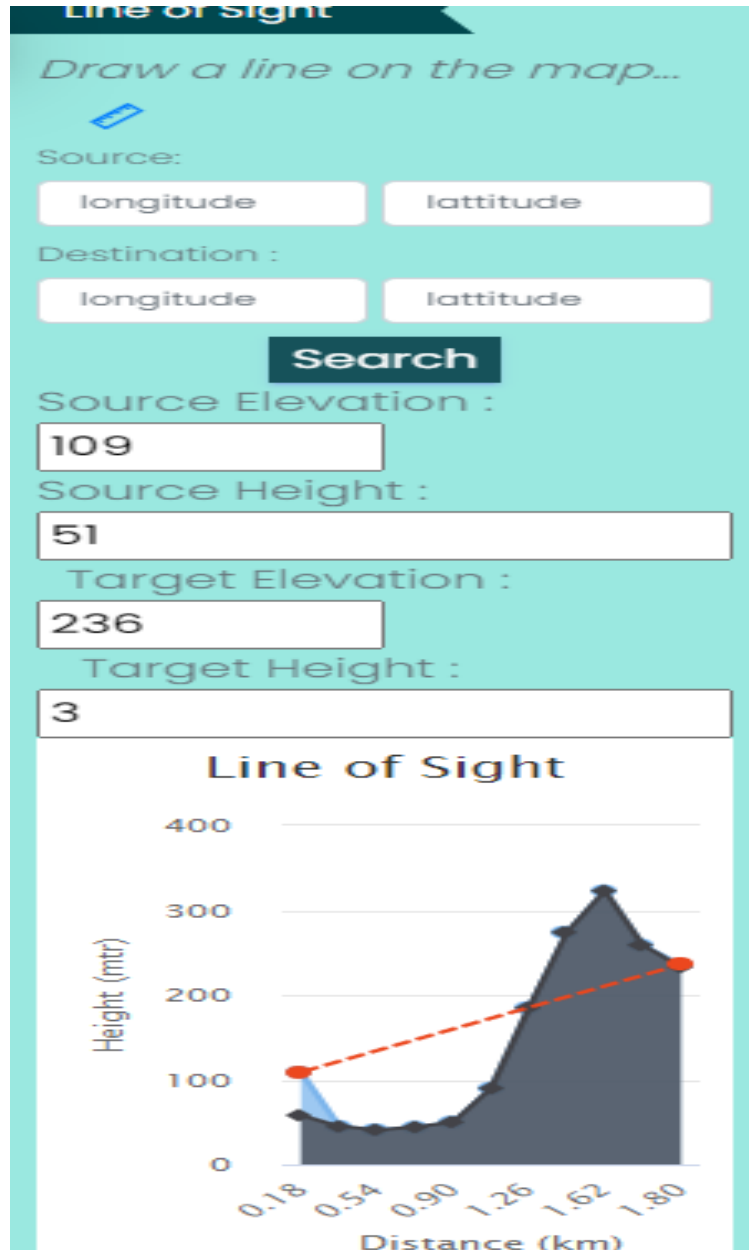
- Find shortest distance of OFC from the point of interest (use case fiberization of Towers/ Public institutions)
- Select point of interest on map or by entering latitude & longitude
- Find distance for one or all operators.
- Find distance by road as well as aerial
- Find RoW information along the route
- Download the information of distances calculated

The screenshot displays the 'Shortest Distance' tool interface. On the left, there is a search panel with a dropdown menu set to 'DELHI', a 'Select Operator' dropdown, and a list of operators with checkboxes: BSNL, Gail OFC, Gail OFC UpComing, BBNL, TCL, and RaiiTel. Below this is a 'Point' dropdown and a 'Download' button. The main area shows a map with a red dot indicating the point of interest. On the right, a 'Search' panel displays a table of results:

Operator	ArialDistance(Km)	ViewOnMap	RO
	238.17	View On Map	F
BBNL	0.07	View On Map	F
BSNL	1.04	View On Map	F
Gail OFC	246.72	View On Map	F
RaiiTel	14.77	View On Map	F
TCL	13.04	View On Map	F

Showing 1 to 6 of 6 entries





## LINE OF SIGHT TOOL

Find height of towers required at 2 points of interest to bring them in **Line of Sight**

Select points of interest on map or by entering latitude & longitude

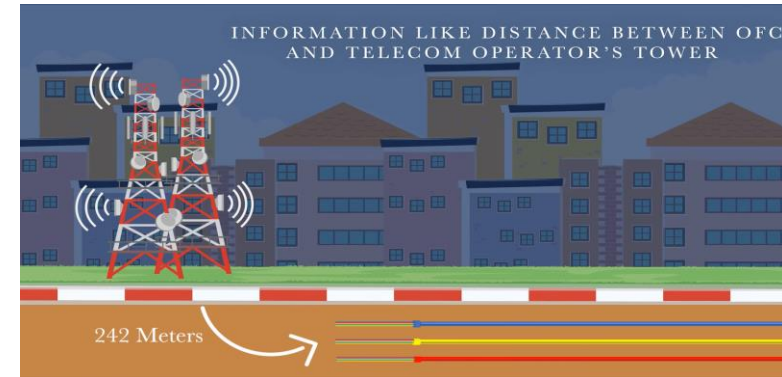
Dynamically change height of any point(s) and see the results

Easy to use graphical interface

**4G saturation in 25000 uncovered villages uses NMP for planning of the project for:**



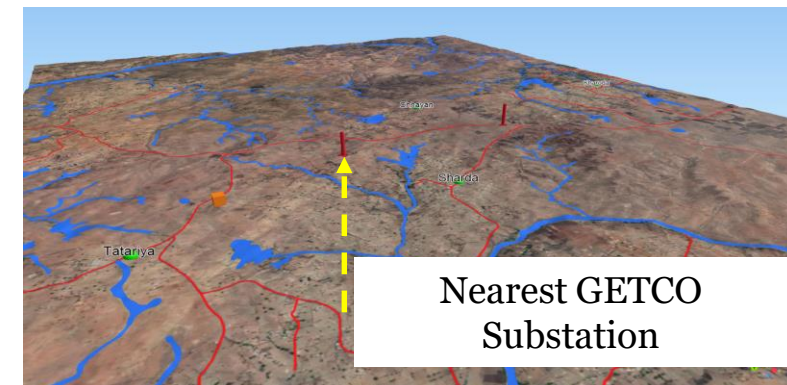
**Distance of nearest available roads**



**Distance of available OFC from the proposed sites (32,000 Rkm), at 8681 places LoS for Micro Wave purposes identified**



**Availability of land for installation (7558)**



**Distance of nearest available electric supply installation (at 6560 places Electricity connection was identified)**

# Optical Fiber laid by ISPs

- All the ISPs are requested to provide data on their optical fiber laid. Data can be submitted in KML (Keyhole Markup Language) format or shape files or even excels files having the following attributes:
  - ✓ Operator
  - ✓ TSP(from whom backhaul bandwidth is taken)
  - ✓ Installed on date
  - ✓ No. of cores
  - ✓ No. of cores utilized
  - ✓ Type of OFC(overhead, underground or OPGW)
  - ✓ Contact person(for sale/FTTH connection)
  - ✓ Remarks(if any)
- Further the ISPs are also requested to provide details of OLTs(optical line terminal) & ONTs(optical network terminal), if any, with these attributes:
  - ✓ Type
  - ✓ Latitude
  - ✓ Longitude
  - ✓ TSP(from whom backhaul bandwidth is taken)
  - ✓ Installed on date
  - ✓ Remarks(if any)
- The objective is to map the optical fiber/network elements on the **PM GatiShakti NMP platform** so that the same can be used for other operators to fiberization mobile towers and provide FTTH connections in rural/remote areas. Hence a **business opportunity** for ISPs.



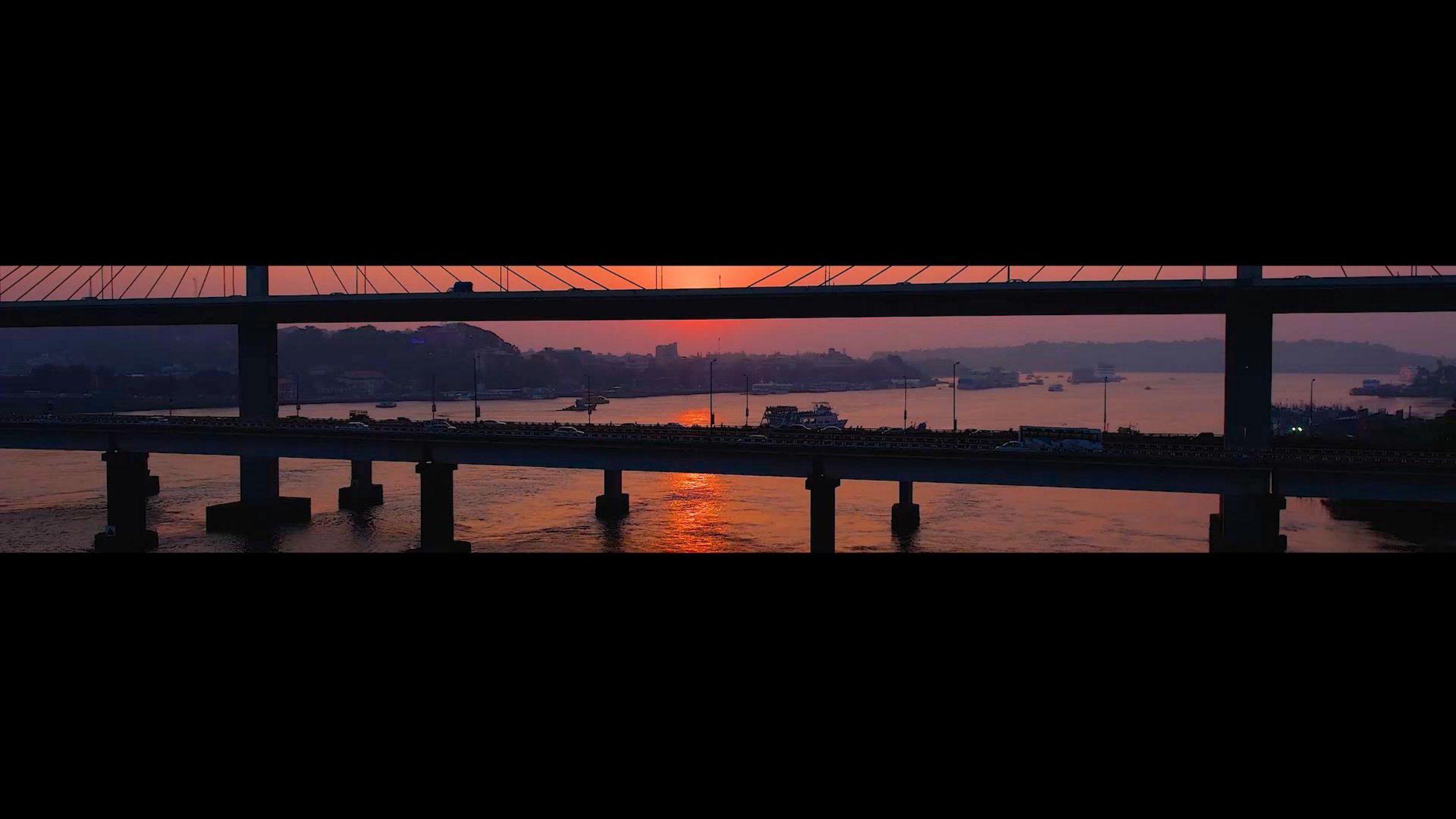
# **Call Before u Dig (CBuD) Mobile App**

# 'Call Before u Dig' (CBuD) mobile application



## Call Before u Dig (CBuD) Mobile App

Launched by **Hon'ble Prime Minister**, on 22<sup>nd</sup> March 2023



# Features-Call Before U Dig (CBuD)



Mobile App working on android & ios



Diggers can know the contact details of utility asset owners for coordination before start of digging



Utility Owners – can know about imminent digging activity near their utility assets & can interact with diggers.



Diggers/utility asset owners will be given alerts via SMS, email and in-app notification and will also have the facility of 'Call Before U Dig'.



Help desk no. (0755-2700802) will be for supporting the users as to how to use the App.  
email id-support@gatishaktisanchar.gov.in

# CBuD Advantages-Ease of Doing Business



## State Govt.

- Many utilities can be saved from unwanted cuts and wasteful expenses for restoration
- Lowers tax losses to Govt.



## Utility Asset Owners

- Lowering of costs, saving of petrol (FOREX) as less need of physical surveys for securing assets
- Scheduled digging information in advance
- Lesser damage of underground assets



## Digging Agencies

- Digger can submit all the required information to all the utility asset owners at one place. No need to spend time in finding contact details of different utility providers
- Free advice from asset owners, to save underlying assets
- Will save from subsequent penalties/disputes



## Citizen

- Lesser breakdowns mean less inconvenience





**As Excavators** - Railways, MoD, MoRTH(NHAI), MoPNG & **ISPs** to mandate all their excavating agencies/ contractors to do any type of excavation only after prior intimation through CBuD app



**As Utility asset owners** - Preconfigure contact details of in-charges of utilities (district wise) in CBuD to get notification of excavation in their areas

# CBuD-Activities to be taken



  
**भारत का राजपत्र**  
**The Gazette of India**

सी.जी.-डी.एल.-अ.-03012023-241640  
CG-DL-E-03012023-241640

असाधारण  
EXTRAORDINARY  
भाग II—खण्ड 3—उप-खण्ड (i)  
PART II—Section 3—Sub-section (i)  
प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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संचार मंत्रालय

(दूरसंचार विभाग)

अधिसूचना

नई दिल्ली, 3 जनवरी, 2023

सा.का.नि. 06(अ).— केन्द्रीय सरकार, भारतीय तार अधिनियम, 1885 (1885 का 13) की धारा 7 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, निम्नलिखित नियम बनाती है, अर्थात्:-

1. संक्षिप्त नाम और प्रारंभ:- (1) इन नियमों का संक्षिप्त नाम भारतीय तार (अवसंरचना सुरक्षा) नियम, 2022 है।

(2) ये राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. परिभाषाएं:- (1) इन नियमों में, जब तक कि संदर्भ से अन्यथा अपेक्षित न हों, -

(क) "अधिनियम" से भारतीय तार अधिनियम, 1885 (1885 का 13) अभिप्रेत है;

(ख) "सामान्य पोर्टल" से इन नियमों के प्रयोजनों के लिए केन्द्रीय सरकार द्वारा विकसित और अधिसूचित पोर्टल या मोबाइल फ़ोन उपयोजन अभिप्रेत है;

(ग) "अनुज्ञापिधारी" से अधिनियम की धारा 4 की उप-धारा (1) के अधीन अनुज्ञापित धारण करने वाला कोई व्यक्ति अभिप्रेत है;

(घ) "सूचना" से सामान्य पोर्टल के माध्यम से प्रस्तुत की गई खुदाई या उखनन संबंधी पूर्व सूचना अभिप्रेत है;

25 GI/2023

(1)

2

THE GAZETTE OF INDIA : EXTRAORDINARY

[PART II—SEC. 3(i)]

(इ.) "तार अवसंरचना" में तार या तार लाइन और पोस्ट शामिल हैं;

(2) उन शब्दों और पदों के जो प्रयुक्त हैं और परिभाषित नहीं हैं किन्तु अधिनियम में परिभाषित हैं वही अर्थ होगा जो अधिनियम में है।

3. किसी संपत्ति की खुदाई या उखनन के विधिक अधिकार का प्रयोग करने की प्रक्रिया - (1) कोई व्यक्ति जो किसी संपत्ति के अधिकार के विधिक अधिकार से खुदाई या उखनन की इच्छा इस प्रकार से रखता हो जिससे कि अधिनियम के उपबंधों के अनुसार सम्यक रूप से स्थापित की गई तार अवसंरचना या टेलीग्राफिक संचार को नुक़ावट डालने या बाधित करने की संभावना हो, तो वह व्यक्ति ऐसे अधिकार का प्रयोग करने से पूर्व इस प्रकार की खुदाई या उखनन की सूचना, सामान्य पोर्टल के माध्यम से प्रस्तुत करके अनुज्ञापिधारी को सूचना देगा।

(2) उप-नियम (1) के अधीन सूचना में विधिक अधिकार का उपयोग करने वाले व्यक्ति का नाम और पता, एजेंसी का ख़ौरा, पता, खुदाई शुरू करने की तारीख और समय, खुदाई का विवरण और स्थान तथा इस प्रकार की खुदाई या उखनन करने के कारण शामिल किए जाएंगे।

(3) अनुज्ञापिधारी उप-नियम (1) के अधीन सूचना प्रस्तुत करने पर संपत्ति से संबंध किसी भी अनुज्ञापिधारी द्वारा स्वामित्व वाली या नियंत्रित या तार अवसंरचना का ख़ौरा सामान्य पोर्टल के माध्यम से यथा शीघ्र उपलब्ध कराएगा जिसका प्रयोग वह तार अवसंरचना को क्षति पहुँचाए बिना समन्वय के लिए पूर्वावधानी उपायों के साथ-साथ अधिकार के विधिक प्रयोग के लिए करना चाहता है।

(4) खुदाई या उखनन के विधिक अधिकार का प्रयोग करने वाला व्यक्ति, उप-नियम (3) के अनुसार अनुज्ञापिधारी द्वारा किए गए पूर्वावधानी उपायों पर उपयुक्त कार्रवाई करेगा।

(5) यदि कोई अनुज्ञापिधारी अधिनियम की धारा 19(क) के अनुसार विहित समय के भीतर ख़ौरा उपलब्ध नहीं कराता है तो खुदाई या उखनन के विधिक अधिकार प्राप्त व्यक्ति इसके पश्चात संपत्ति की खुदाई या उखनन करने के लिए स्वतंत्र होगा।

4. नियम के उपबंधों के उल्लंघन के लिए नुक़सानी प्रभार - (1) कोई व्यक्ति, जिसने किसी संपत्ति की खुदाई या उखनन के विधिक अधिकार का प्रयोग इस ढंग से किया हो, जिससे अधिनियम के उपबंधों के अनुसार विधिवत रखा गए तार अवसंरचना के बुनियादी ढाँचे को नुक़सान होता है, वह तार प्राधिकारी को नुक़सानी प्रभार का भुगतान करने के लिए उत्तरदायी होगा।

(2) उप-नियम (1) के अधीन नुक़सानी प्रभार की गणना ऐसे खर्चों के आधार पर की जाएगी जैसा नुक़सानी के प्रत्यावर्तन में उपगत किया जाए।

[फा. सं. 2-16/2022- नीति]

आनंद सिंह, संयुक्त सचिव

MINISTRY OF COMMUNICATIONS

(Department of Telecommunications)

NOTIFICATION

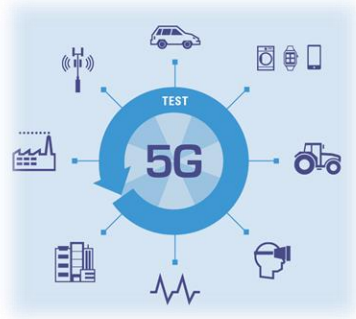
New Delhi, the 3rd January, 2023

G.S.R. 06(E).— In exercise of the powers conferred by section 7 of the Indian Telegraph Act, 1885 (13 of 1885), the Central Government hereby makes the following rules, namely: -

1. Short title and commencement. (1) These rules may be called the Indian Telegraph (Infrastructure

DoT has come out with **notification dated 3rd Jan 2023** reg. **safety of Telecom assets** which mandates use of a common portal/app (CBuD) and prescribes procedure of giving notices etc. for digging and applicable damages in case of damage to telegraph property.

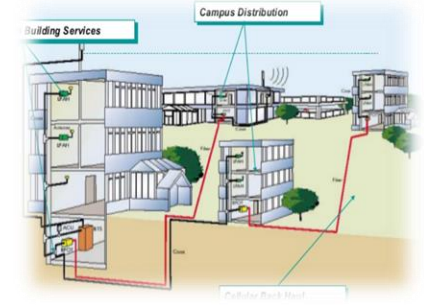
# 5G Capacity Building Conference for All States/UTs



5G Use Cases & presentation/ demo by Start Ups



Call Before u Dig (CBuD) Mobile Application



Model Building Bye-Laws, 2016 (Provision for in-building solutions) issued by MoHUA



Status of mapping of street furniture for 5G rollout



Activating 5G form on State's RoW Online Portal and RoW applications Pendency



State initiatives for 5G rollout



5G Rollout Plans of TSPs and expectations from States

## RoW issues

- RoW rates/policies in all States/ UTs available on GatiShakti Sanchar Portal - View it regularly
- Interact with DoT LSA officials, to facilitate resolution of pending RoW applications or RoW charges

## PM GatiShakti NMP Platform

- Use it to know available OFC for backhaul connectivity at any location (Lat.-Long.)
- Map your OFC/assets on NMP, so that to share it commercially with other ISPs/TSPs
- Approach DoT LSA to get details from NMP

## CBuD

- Get the assets owner user creation for 'Call Before u Dig' Mobile app
- Use CBuD before starting any digging to avoid penalties and to save assets of others

## 5G network related products

- Work with start-ups.. Viz. **AMANTYA** for 5G network related pro

**AMANTYA**

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## Request Suggestions to take the Mission Forward

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# Thank You



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