





# States/ UTs of East Zone Digital Infrastructure deployment related issues

Dated-12-Sep-2023

#### **Department of Telecommunications**

- 1. ASSAM
- 2. WEST BENGAL
- 3. ANDAMAN & NICOBAR
- 4. SIKKIM

- 5. BIHAR
- 6. JHARKHAND
- 7. NE (MEGHALAYA, MANIPUR, ARUNACHAL PRADESH, NAGALAND, TRIPURA, MIZORAM)

### Agenda of the Meeting



- 1. Summary of overall RoW Pendencies
- 2. 5G rollout issues:
- a. State Policy alignment with amendment (to IT ROW rules, 2016), issued in Aug 2022, for provisioning of street furniture/poles etc.
- b. Activating 5G Form on States' RoW Online Portal for 5G rollout
- c. GIS mapping of Street Furniture
- d. Fiberization of Towers
- 3. Incorporation of addendum to Model Building Byelaws, 2016 (provisions for 'IN-Building Solutions' (IBS) issued by Ministry of Housing and Urban Affairs (MoHUA)
- 4. Status of Pilot on 5G Use Cases, if any, initiated by States/ Uts
- 5. Review of status of CBuD
- 6. Startup Nomination for IMC2023

# RoW Pending Applications (GatiShakti Sanchar Portal)



S.No.	State / UT	<b>RoW Application Pendency</b>	RoW Application Pendency (>90 days)
		(as on 11.09.2023)	(As on 11.09.2023)
1	Bihar	1068	1046
2	Assam	85	75
3	Arunachal Pradesh	25	23
4	West Bengal	4	4

### IT RoW Rules, 2016 and Amendment(2022)



- States/ UT **yet to incorporate** provisions of Indian Telegraph Right of Way (Amendment) Rules 2022-Arunachal Pradesh, Bihar, Meghalaya, Nagaland
- Nagaland yet to incorporate "Deemed Approval" in their RoW Policy
- Nagaland, Tripura yet to implement "Deemed Approval" in portal
- A&N, Arunachal Pradesh, Bihar, Meghalaya, Mizoram, Nagaland, Sikkim and West Bengal yet to incorporate provisions of addendum to Model Building Bye-laws, 2016 published by MoHUA in March-2022

#### **IT RoW Amendment Rules 2023-Salient Features**



Central Government has notified the Indian Telegraph Right of Way Amendment Rules, 2023 dated 08.08.2023

- •Licensee, whose existing underground telegraph infrastructure is damaged, may temporarily establish the overground telegraph infrastructure to restore the telegraph service.
- •No fee or compensation for the establishment of temporary overground telegraph infrastructure for the period of sixty days
- •"street furniture" means post or pole used for electricity, street light, traffic light, traffic sign, bus stop, tram stop, taxi stand, public lavatory, memorial, public sculpture, utility pole or any other structure or contrivance of such nature
- Single application and single permission for multiple sites for establishment of small cells
- •No administrative fees or compensation for deployment of small cells on buildings and structures vested in or under their control of Central government





#### Ministry of Power issued/ notified:

- An advisory dated 24.05.2023 on implementation of Composite Billing Scheme for Multiple connections like Telecom Service Providers
- The Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2022 allowing aggregation of loads within same division for 100 kW eligibility
- State support required for adoption of Composite Electricity Billing for telecom as per the advisory of Ministry of Power dated 24th May 2023 and Green Open Access amendment gazette notification by Ministry of Power dated 23rd May 2023

#### **Format of Street furniture**





- 1. Street furniture of the following states has been mapped on NMP:
  - a) 245 government buildings, 401355 electric poles, 53 bus terminals, 70 traffic lights, and 97 bus shelters of Jharkhand.
- 2. All States are requested to provide data of the following assets which will be used as street furniture for the 5G rollout: Street furniture" means post or pole used for electricity, street light, traffic light, traffic sign, bus stop,tram stop, taxi stand, public lavatory, memorial, public sculpture, utility pole or any other structure or contrivance of such nature established over the property of an appropriate authority
- 3. Data can be provided in Excel format to BISAG, and complete data need to be mapped not partial

Sr. No.	Name	Furniture Type	min. 5 decimal places)	Longitu de(min. 5 decimal places)	,		Street Furniture Height(meters, 2 decimal places)	<b>,,</b>	Class	Sub Class
1		Pole	23.23235	75.1234 5	MPEB	3045	8.56		State governmen t	DISCOM
2		Bus Shelter	23.45676		MC Bhopal	ISBT		•		Transport Department

#### **Benefits of fiberization**



✓ Fiberization of BTS(base trans receiver station) is connecting of BTS with optical fiber so that

BTS could handle more of Voice and Data traffic.

#### ✓ Benefits of fiberization:

- I. Better Quality of Service for mobile coverage
- II. Higher internet speeds
- III. More transparent E-governance
- IV. Will attract more investments from industry in areas with better coverage
- V. Better coverage and internet speeds in public institutions like hospitals, government offices, schools etc.

## Fiberization of BTSs as on 31.07.2023

S.N o.	Name of respective LSAs	Total BTSs	Total BTSs connected on fiber	Total BTSs connected on fiber % 31-07-2023
		<b>Urban+Rural</b>	<b>Urban+Rural</b>	%
1	Kolkata	48776	25102	51.46
2	Assam	62491	26289	42.07
3	North-East	38099	14254	37.41
4	WB	114924	38846	33.80
5	Bihar	170915	57543	33.67

Target:- March-24 65%

#### **5G Conference in States-Update**

# State Pending 16

- 1. Arunachal Pradesh
- 2. Bihar
- 3. Goa
- 4. Himachal Pradesh
- 5. Maharashtra
- 6. Meghalaya
- 7. Nagaland
- 8. Odisha
- 9. Punjab
- 10. Sikkim
- 11. Tripura
- 12. Andaman & Nicobar
- 13. DNH
- 14. J&K
- 15. Ladakh
- 16. Lakshadweep

# Start Up Participated 11

- 1. Nayan Tech
- 2. Amanatya
- 3. Superceuticals
- 4. Perkant Tech
- 5. TexhXr
- 6. Nav Wireless
- 7. Nimble Vision
- 8. Sensorise
- 9. Arivation

Live Demo of 5G Use Cases in States 5

- 1. Delhi
- 2. West Bengal
- 3. Uttarakhand
- 4. Karnataka
- 5. Chhattisgarh

DO issued by DoT to all states' DGP, Secretary UDD, Secretary-Transport, CEO Smart City to plan pilot POCs in their state

- 1. Various States raised the enquiry and contacted the startup to explore 5G use case
- 2. Uttrakhand & Kerla are discussing with startup for POC in Transport and Health and Traffic sector
- 3. Tamil Nadu State organised meeting with Startup for Pilot

#### 5G use Cases

#### Potential Use Cases Covered in 5G Conferance

Education and skill

Intelligent Transport, Infrastructure management, Logistics, Precession Management

development

**Industry 4.0** 

Industrial IOT, Robotics, increased automation, Smart Factories

**Agriculture** 

Precession forming, remote diagnostics of soil, health monitoring of live stock **Connected Health Care** 

Smart Ambulance, Emergency service Bioconnectivity, Wearable robotics telemetry, tele consultation

#### Startup Pilot details -State Government initiatives after 5G Conference

Startup	State	Department	Project Details and Location
Perkant Tech Private Contact-Saniya Jeswan Mob-8226008918	Uttrakhand	Health Department	Health screening systems for the Char dham yatra to ensure pilgrim safety and health screening
Nayan Technology Contact-Mr.Jayant Ratti Mobile-9899398646	Delhi/Uttrakhand	PWD/Traffic Police	Al model combined with CCTV footage and physical logbooks of security guards and other workers, will give real time reports of damages to road and footpaths discolouring of pavemnts and theft of iteams like decorative lights or steel sculptures.
	MP	Health Department	Vidisha District Hospital.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Arunachal Pradesh	Health Department	Bakin Pertin General Hospital & Training Center, Pasighat. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
Faciat.	Nagaland	Health Department	Naga Hospital Authority, Dimapur.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
Easiofy Contact-Ms. Noor Fatima	Manipur	Health Department	District Hospital, Senapati.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
Mob-995849937	Mizoram	Health Department	District Hospital, Serchhip.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Meghalaya	Health Department	District Medical & Health Officer, South Garo Hills District, Baghmara. ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Tripura	Health Department	Indira Gandhi Memorial Hospital, Agartala.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
TechXR Contact-Mr. Prashant	Madhya Pradesh	Education	CM Rise school, Natheri,CM Rise School, Vidisha,Subhash Government Higher Secondary School, Bhopal,
Mishra	Arunachal Pradesh	Education	Government College of Nursing, Pasighat
Mobile-8889500018	Uttarakhand	Education	Government Inter College, Champawat,
	Assam	AMTRON	Connected 4 Locations in Guwahati for ASWAN Network (one installation on the Carnival Island which was used for G20 Meet in Feb'23 and another across the Brahmaputra River having Aerial distance of 6.5 Kms.)
Nav Technology Contact-Mr. Prashant Gandhi Mobile-9819503295	Gujarat	BSF/Education	1-At BSF NADABET Complex Stadium for TCGL - in the Middle of Rann at Pakistan Border. 2-Dharoi Dam: Connected Dharoi Dam for Seismological Department, 3-DST (GFGNL's BharatNet Horizontal Connectivity) 4-Connected Sachivalay with State Data Centre for GSWAN (for GIL). 5-Schools at Mithavi Rana and Kanji Gram Panchayat under Completion (GFGNL's BharatNet Horizontal Connectivity)
	Uttrakhand	ITDA	Connected ITDA Hq. with the Secretariate at Dehradun.
	Ladakh	Education	Connected Institutes HIAL and SECMOL of Mr Sonam Wangchuk

#### **Startup Nomination-IMC2023**

V. L. Kantha Rao, IAS Additional Secretary

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GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
ROOM NO. 318, SANCHAR BHAWAN
29, ASHIOKA ROAD
NEW DELHI - 10001

31st August, 2023

D.O. No. 9-1/2023-IC

Madam / Sir

This refers the DO letter by Secretary (Tolecom) dt. 19.06.2023 inviting your State/UT to Indian Mobile Congress (IMC) 2023 (copy enclosed). This event, which is scheduled on 27-29 October 2023, will harness India's expertise in cutting-edge technologies such as 5G, 6G, drone, IOT, broadcasting, satellite etc. and provide a platform to showcase new technological innovations, driving meaningful technical sessions, policy discussions, facilitating enriching connections. The theme of IMC 2023 is "Global Digital Innovation".

- 2. As you may be aware, DoT and its organizations have conducted several State workshops related to innovation promotion such as 5G Hacksthon, DCIS (Digital Communication Innovation Square), TTDF (Telecom Technology Development Fund) scheme, 100 5G labs. Subsequent to the launch of 5G services during October 2022, several Startups and Institutions/Centre of Excellences have started to develop 5G use case applications and advanced communication products across India.
- To encourage and showcase this hyper-local digital innovation of states, under the theme of "ASPIRE", a dedicated space of 10 Pode each for States / 2 Pods each for UTs is allocated free, for the demo of 50 use cases/edvanced communication products identified by States/UTs administration in IMC 2023.
- To facilitate startups from your State/UT, Shri Amit Kumar Chauhan, Director, National Broadband Mission (email: dir3@broadbandmission.gov.in, Mob: 9869002302) for use cases and Shri Pradeep Prakash (pradeep@indiamobilecongress.com, 9810967493) for space have been instructed suitably.
- You are, therefore, requested to indicate the names and details of startups being sponsored by your State/UT by 15th September, 2023.

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Yours sincerely.

(V.L. Kantha Rao)

End: As above

All Chief Secretaries of States / UTs All Advisors to Administrators of UTs



ASPIRE:- To encourage and showcase this hyper local digital innovation of states

Dedicated space of 10 Pods each for state/ 2 Pods each for UTs is allocated Free. For the demo of 5G use cases/ advance communication product identified by states/UTs administration in IMC 2023

Startup nomination awaited- Last date 15-Sep-2023 Kindly send the nomination to Shri Amit Kumar Chauhan Director National Broadband Mission Email Id:dir3@broadbandmission.gov.in Mobile No:-9869002302



#### "Call Before u Dig" Mobile App - CBuD

Total registered User 46381

Total registered Excavator 14105

Total Usages (Enquiry) **4562** 

Central 8390

State 37991

**Top States**Rajasthan-2212
Gujrat-2144
Assam -808

Top States Gujrat-1776 Assam-744 Rajasthan-291

#### **Top Performer**

Karnataka Uttar Pradesh Maharashtra

#### **New Features:-**

- 1). Withdrawal of Enquiry
- 2). Rescheduling of Enquiry
- 3). Asset owner creation till Tehsil level
- 4). Department level and Agency level Unauthorized excavation report module activated

\*Data as on 11 Sep 2023

## **CBuD Status and Action required**

LSA	State Name	State Asset Owner		Target		Achieve	Unautho rised Enquiry	Enquiy
ASSAM	ASSAM	256	762	460	741	161.1%	4	
	WEST BENGAL	989	304	300	244	81.3%	9	
WEST BENGAL	ANDAMAN & NICOBAR	347	11	40	11	27.5%		Enquiries not raised regularly.
WEST BEINGAL	SIKKIM	81	2	80	0	0.0%		No enquiries. 5 Excavtors registered.
BIHAR	BIHAR	3803	87	500	70	14.0%	31	
DITIAN	JHARKHAND	376	84	310	76	24.5%	14	
	MEGHALAYA	98	10	160	9	5.6%	1	Less enquiries.
	MANIPUR	105	3	210	2	1.0%		Less enquiries.
	ARUNACHAL PRADESH	235	1	330	0	0.0%		No enquiries. Less Excavtors regd.
NE	NAGALAND	42	1	200	0	0.0%		No enquiries. Less Excavtors regd.
	TRIPURA	97	0	110	0	0.0%		No enquiries. To create Tehsil user in remaining districts.
	MIZORAM	79	0	140	0	0.0%		No enquiries. Less excavators regd.

<sup>\*</sup> No LSA filed FIR against unauthorized excavations. data as per 11-Sep-23.

### **CBuD-Action Required**

- (i) All State departments to issue instructions mandating use of CBuD App prior to any type of excavation / digging,
- (ii) Randomly monitor digging activities in cities/towns and if not informed through CBuD App, take suitable action(s) viz. do counselling in presence of TV/Print media for wide publicity, issue notice, file FIR, etc. as per DoT's IT Infrastructure Safety Rules 2022.
- (iii) 'Excavation permission' issuing authorities to include a line in the approval letter itself in this regard such as "Agency which is excavating must use the CBuD App before commencing any excavation on public lands/roads in the State".
- (iv) Awareness workshops for departments as well excavators.
- (v) States to notify rules for State specific assets viz. Water pipeline, Sewerage pipeline, electricity cable, Gas/Petroleum pipeline, Roads, etc. similar to DoT's Indian Telegraph (Infrastructure Safety) Rules.

#### To create institutional mechanism for common duct to reduce cost

#### To create institutional mechanism for common duct with common interest to reduce cost

- Multi stakeholder Committee by DoT finalised a "Draft Standard for Common Duct and Post infrastructure along Highways and public pathways"
- An advisory 'Draft Policy Guidelines for Establishment of Common Duct and Post Infrastructure' has been circulated to all the State Governments/ UTs on 12.10.2022.
- It covers installation of common ducts and posts, management and operation of such ducts and posts and charges to be levied for installation, management and operations of such ducts and posts.

Action required: All States/UTs may examine the advisory and may adopt and create mechanism for creation of ducts for public utilities for green field projects (roads, gas pipeline, electricity, water, telecom etc)



# **RoW issues- West Bengal**



1. RoW Application Pendency (deemed approval activated on portal)- 04

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)-  Pending Item
	IBS Policy	Under process, State Building Dept. is requested to do
II	Portal	5G form to be implemented     Grievances API integration to be done
III	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped
IV	Other issues	1. High pole charges- Rs. 5000/ per pole one time for hilly areas and tea gardens, 20,000/- per pole one time for other areas 2. High charges for installation of tower is Rs. 30,000- one time (for each TSP in a tower) 3. High charge for laying OFC is Rs. 5000/km one time prescribed under the policy

# **RoW issues- Tripura**



1. RoW Application Pendency (deemed approval not activated on portal)- 01

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)  Pending Item
I	IBS Policy	Under Process. will take some time
II	Portal	Deemed approval to be activated
III	(CRIII)	•Mandate to use CBuD by Excavator •CBuD usage zero
IV	manning	•Street furniture in DoT format and OFC laid by PSU require to be mapped
V	Other issues	Annual compensation for using pole for overground telegraph line is up to Rs. 300/pole and for small cells is Rs. 500 and 300/pole/annum (Urban and rural area)

## **RoW issues- Sikkim**



1. RoW Application Pendency (deemed approval activated on portal)- 01

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)  Pending Item
I	IBS Policy	Submitted for cabinet approval
II	Portal	Grievances API integration to be done
III	CBuD	•Mandate to use CBuD by Excavator •CBuD usage zero
IV	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped
V	Other issues	High pole charge for usage of pole is Rs. 500 per pole per annum

# **RoW issues- Nagaland**



1. RoW Application Pendency (deemed approval not activated on portal)- 01

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
I	RoW Policy	under process and will be notified by next month
II	IBS Policy	Under process and will be done soon
III	Portal	<ul> <li>5G Form implementation to be done</li> <li>Deemed approval yet to be activated on portal</li> </ul>
IV	CBuD	CBuD usage is Zero
V	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

### **RoW issues- Mizoram**



1. RoW Application Pendency (deemed approval activated on portal)- 04

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
I	IBS Policy	Under Process and pending with Finance Dept.
II	Portal	<ul> <li>5G form to be implemented</li> <li>Application status updates to be sent through email to the applicant who submitted it</li> </ul>
III	CBuD	•CBuD usage zero
IV	Street Furniture mapping	•Street furniture in DoT format and OFC laid by PSU require to be mapped
V	Other issues	•Charges of usage of street furniture for small cell and telegraph line to be decided by Electricity regulatory commission

# **RoW issues- Meghalaya**



1. RoW Application Pendency (deemed approval activated on portal) - 01

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
I	RoW Policy	Draft Policy circulated and to be reviewed in meeting
II	IBS Policy	Informed to concern dept. No Timeline given
III	Portal	5G form to be implemented
IV	CBuD	Asset Owner Mapping for all Departments CBuD usage is less than 10
V	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

# **RoW issues- Manipur**



1. RoW Application Pendency (deemed approval activated on portal)- 05

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
I	CBuD	CBuD usage is less than 10
II	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped
III	Other issues	High pole charge Rs. 1000 per pole per annum

#### **RoW issues- Jharkhand**



1. RoW Application Pendency (deemed approval activated on portal)- Nil



Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)  Pending Item
I	Portal	<ul> <li>5G form to be implemented</li> <li>All L1/L2/L3 Officers who are involved in approval process to be mapped in state RoW portal</li> <li>Grievances API integration to be done</li> </ul>
II	CBuD	Mandate to use CBuD by Excavator
III	Street Furniture mapping	245 government buildings, 401355 electric poles, 53 bus terminals, 70 traffic lights and 97 bus shelters of Jharkhand mapped. OFC of Jharkhand state mapped- Rest of street furniture to be mapped

### **RoW issues- Bihar**



1. RoW Application Pendency (deemed approval activated on portal)

Applications Submitted	Total Approved Application	Applications Rejected	Under Process App	Applications Pending (>90 days)	Applications Reverted
24992	18608	4816	300	1068 (1046)	200

Point No. 02		Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
1	RoW Policy	Pending with cabinet, query raised.
II	IBS Policy	Under Process. UD dept. is working
III	Portal	<ul><li>5G form to be implemented</li><li>Grievances API integration to be done</li></ul>
IV	CBuD	Mandate to use CBuD by Excavator
V	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

#### **RoW issues- Assam**



1. RoW Application Pendency (deemed approval activated on portal)- 85 (>90 days-75)

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)  Pending Item
I	Portal	<ul> <li>5G form to be implemented</li> <li>Application status updates to be sent through email • Application status to be sent through SMS</li> </ul>
II	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped
III	Other issues	One time charge for tower at private property is Rs. 10,000

#### **RoW issues- Arunachal Pradesh**



1. RoW Application Pendency (deemed approval activated on portal)- 25 (>90 days-23)

Point No. 02	Description	Status ( as discussed in last review meeting dated 15.05.2023)  Pending Item
I	RoW Policy	Draft circulated, to be finalised soon
II	IBS Policy	Under legal vetting, will be done in 15 days
III	Portal	5G Form implementation to be activated
IV	CBuD	CBuD usage is less than Zero
V	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

## **RoW issues- Andaman and Nicobar**



#### 1. RoW Application Pendency - Nil



Point No. 02	II JASCRINTIAN	Status ( as discussed in last review meeting dated 15.05.2023) Pending Item
I	IBS Policy	Cabinet decision is pending. will be done in two weeks
II	CBuD	CBuD usage is less than 10
III	1 •	Street furniture in DoT format and OFC laid by PSU require to be mapped



#### Request Suggestions to take the Mission Forward

Neeraj Kumar, DDG, Broadband Mission Ganesh Bakade, Director, Broadband Mission

Amit Kumar Chauhan, Director, Broadband Mission Himanshu Sharma, Director, Broadband Mission

Sanil Kumar, National Broadband Mission (PMU)

98682 18069, md@broadbandmission.gov.in 9868103831, <dir2@broadbandmission.gov.in>

98690 02302, dir3@broadbandmission.gov.in 9416070989, himanshu.sharma23@gov.in

7004083816, sanil.kumar@broadbandmission.gov.in RoW

Mission Director Portal, Call Before U dig

RoW, 5G launch GatiShakti NMP, 4G Saturation

#### Thank You

National Broadband Mission on Social Media



NationalBroadbandMission



NBM DoT



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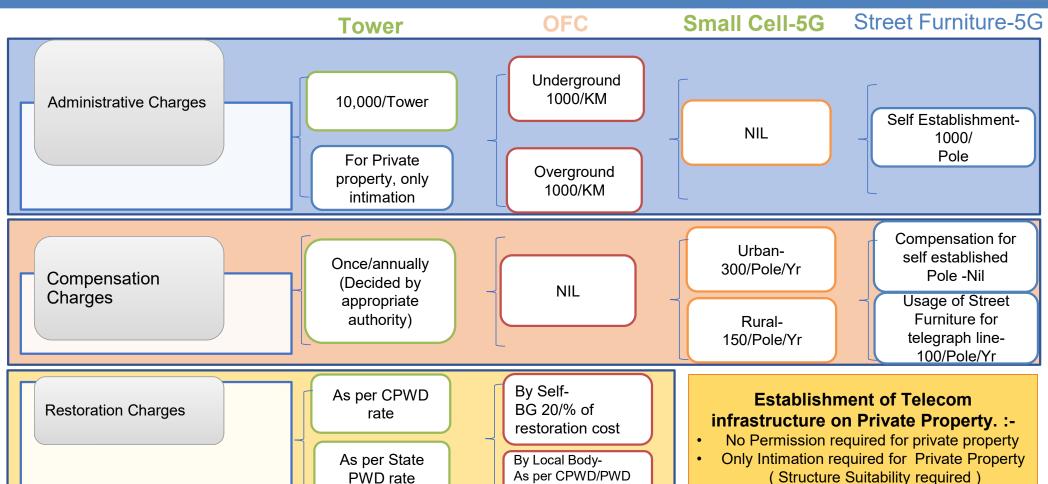
National Broadband Mission



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# IT RoW Rules, 2016 and Amendment(2022)-Salient Features 🧘





rate