



सत्यमेव जयते

Department of Telecommunications
Ministry of Communications
Government of India



States/UTs of South Zone Digital Infrastructure deployment related issues

13-Sep-2023

Department of Telecommunications

1. Andhra Pradesh
2. Karnataka
3. Kerala
4. Odisha

5. Puducherry
6. Tamil Nadu
7. Telangana

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**

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

Composite Electricity Billing and Green Open Access

- **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 as above

5G Conference in States- Update

State Pending 15

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

1. Delhi
2. West Bengal
3. Uttrakhand
4. Karnataka

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

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

Startup Nomination-IMC2023

V. L. Kantha Rao, IAS
Additional Secretary

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

31st August, 2023

Madam / Sir

This refers the DO letter by Secretary (Telecom) 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 Hackathon, 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.

3. To encourage and showcase this hyper-local digital innovation of states, under the theme of "ASPIRE", a dedicated space of 10 Pods each for States / 2 Pods each for UTs is allocated free, for the demo of 5G use cases/advanced communication products identified by States/UTs administration in IMC 2023.

4. 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, 9810667493) for space have been instructed suitably.

5. You are, therefore, requested to indicate the names and details of startups being sponsored by your State/UT by 15th September, 2023.

With regards

Yours sincerely,

V.L. Kantha Rao
(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

Startup Pilot details -State Government initiatives after 5G Conference

Startup	State	Department	Project Details and Location
Perkant Tech Private Contact-Saniya Jeswan Mob-8226008918	Uttarakhand	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/Uttarakhand	PWD/Traffic Police	AI 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.
Easiofy Contact-Ms. Noor Fatima Mob-995849937	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
	Nagaland	Health Department	Naga Hospital Authority, Dimapur.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	Manipur	Health Department	District Hospital, Senapati.ImagiXAI is the platform name. Its cloud based AI enabled image analysis platform
	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 Mishra Mobile-8889500018	Madhya Pradesh	Education	CM Rise school, Natheri,CM Rise School, Vidisha,Subhash Government Higher Secondary School, Bhopal,
	Arunachal Pradesh	Education	Government College of Nursing, Pasighat
	Uttarakhand	Education	Government Inter College, Champawat,
Nav Technology Contact-Mr. Prashant Gandhi Mobile-9819503295	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.)
	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)
	Uttarakhand	ITDA	Connected ITDA Hq. with the Secretariate at Dehradun.
	Ladakh	Education	Connected Institutes HIAL and SECMOL of Mr Sonam Wangchuk

RoW issues- Telangana

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

Applications Submitted	Total Approved Application	Applications Rejected	Under Process App	Applications Pending (>90 days)
1286	882	3	186	215 (179)

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023 – Pending Item)
I	RoW Policy	Under Process.
II	Portal	• Application status updates to be sent through email • Grievances API integration to be done
III	CBuD	•Mandate to use CBuD by excavator •CBuD usage is less than 22
IV	Street Furniture mapping	Street furniture in DoT defined format not mapped. OFC mapped
V	Other issues	High Charges for overground- local bodies are charging up to 1,00,000/-

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
430	13	0.03	90150	38753	42.99

RoW issues- Tamil Nadu

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	Application Withdrawn
49162	29769	10271	806	5993 (4040)	1963	1

Point No. 02	Description	Status(as discussed in last review meeting dated 19.05.2023- Pending Item
I	RoW Policy	Under circulation, only 4 dept. is pending
II	IBS Policy	Pending with law dept. Will be done soon.
III	Portal	<ul style="list-style-type: none"> • 5G form to be implemented • All L1/L2/L3 to be mapped in state RoW portal
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

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
500	38	7.6%	161589	72686	44.98

RoW issues- Puducherry

1. RoW Application Pendency (deemed approval activated on portal)- 02

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023- Pending Item)
I	Portal	5G form to be activated
II	CBuD	.Mandate to use CBuD by excavator .CBuD usage is Zero (0)
III	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
50	36	72%	2210	1062	48.05

RoW issues- Odisha

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

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023- Pending Item)
I	IBS Policy	Under Process. No Timeline given
II	CBuD	.Mandate to use CBuD by excavator .CBuD usage is less than 20
III	RoW Portal	Grievances API integration to be done
IV	Street Furniture mapping	~18 lakh electric poles data mapped. Rest to be mapped

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
390	18	4.6%	77917	28440	36.5



RoW issues- Kerala

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

Applications Submitted	Total Approved Application	Applications Rejected	Under Process App	Applications Pending (>90 days)	Applications Reverted	Application Withdrawn	Payment Pending by Applicant
14449	3171	2421	871	1598 (1413)	21	4736	1631

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023- Pending Item)
I	RoW Policy	Under Cabinet approval
II	Portal	<ul style="list-style-type: none"> • 5G form to be implemented • Standard Rejection Reason Code to be sent • Deemed Approval to be implemented • Application status updates to be sent through SMS Tower portal to be integrated
III	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped
IV	Other issues	Higher charges for U/G (INR 75,000/km as track Rental to be deposited in CM relief fund)

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
180	97	53.9%	113541	43066	37.93

RoW issues- Karnataka

1. RoW Application Pendency (deemed approval not activated on portal, only RPDR activated)-

Applications Submitted	Total Approved Application	Applications Rejected	Under Process App	Applications Pending (>90 days)	Applications Reverted	Application Withdrawn	Payment Pending by Applicant
15001	4609	6135	824	534 (327)	1	0	1752

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023- Pending Item)
I	RoW Policy	New govt. formed. require some time
II	IBS Policy	New govt. formed. require some time
III	Portal	<ul style="list-style-type: none"> <input type="checkbox"/> 5G form to be activated <input type="checkbox"/> Deemed approval to be activated by BBMP, KMDC <input type="checkbox"/> Standard rejection codes to be implemented, except KMDC <input type="checkbox"/> SMS/ email alert to be sent to applicant except BBMP <input type="checkbox"/> RDPR central to state integration to be implemented
IV	Street Furniture mapping	Street furniture in DoT format and OFC laid by PSU require to be mapped

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
410	114	27.8%	173567	80762	46.53

RoW issues- Andhra Pradesh

1. RoW Application Pendency (deemed approval activated on portal)- 9

Point No. 02	Description	Status (as discussed in last review meeting dated 19.05.2023- Pending Item)
I	Portal	<ul style="list-style-type: none"> ❑ 5G form to be activated by CMDA, PRED, TR&B ❑ Business code to be implemented by DTCP and PRRD ❑ SMS/ Email Alerts to applicants to be implemented
II	Street Furniture mapping	Street furniture in DoT format

CBuD			BTS Fiberization as on 31-07-2023		
Enquiry Target for 2023-24	Enquiries <u>1 Apr - 11 Sep 2023</u> against target	% Achievement	Total BTSs	Total BTSs connected on fiber	% Total BTSs connected on fiber
340	26	7.6%	85178	32409	38.05



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)

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Mission Director

Portal, Call Before U dig

RoW, 5G launch

GatiShakti NMP, 4G

Saturation

RoW

Thank You

National Broadband Mission on Social Media



NationalBroadbandMission



NBM_DoT



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

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)

“Call Before u Dig” Mobile App - CBuD

Total registered User

36741

Total registered
Excavator

13796

Total Usages (Enquiry)

3858

Central
8164

State
28577

Top States

Rajasthan-2212
Gujrat-2044
Assam -785

Top States

Gujrat-1554
Assam-591
Rajasthan-284

Top Performer

Maharashtra
Gujrat
Uttar Pradesh

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 08 August 2023

RoW Pending Applications (GatiShakti Sanchar Portal)



S.No.	State / UT	RoW Application Pendency (as on 11.09.2023)	RoW Application Pendency (>90 days) (As on 11.09.2023)
1	Tamil Nadu	5993	4040
2	Kerala	1598	1413
3	Karnataka	1680	1343
4	Telangana	215	179
5	Andhra Pradesh	62	42
6	Puducherry	2	2

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 31.05.2023

S.No.	Name of respective LSAs	Total BTSs	Total BTSs connected on fiber	Total BTSs connected on fiber % 31-05-2023
		Urban+Rural	Urban+Rural	%
1	Karnataka	168921	77108	45.65
2	Tamilnadu	162759	72395	44.48
3	AP	174392	71057	40.75
4	Kerala	107437	40805	37.98
5	Odisha	76950	28017	36.41

Target:- March-24 65%

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.

Format of Street furniture

- All States are requested to provide data of the following assets which will be used as street furniture for the 5G rollout:
Electric Poles, Traffic light poles, Bus shelters, Government buildings, Streetlights, billboards, etc.
- Data can be provided in Excel format to BISAG, and complete data need to be mapped not partial

Sr. No.	State	City Name	Street Furniture Type	Latitude(min. 5 decimal places)	Longitude(min. 5 decimal places)	Authority	Street Furniture Id/Name	Street Furniture Height(meters, 2 decimal places)	Structure Type of Street furniture	Class	Sub Class
1			Pole	23.23235	75.12345	MPEB	3045	8.56	Steel	State government	DISCOM
2			Bus Shelter	23.45676	75.45677	MC Bhopal	ISBT	10.12	RCC(reinforced cement concrete)	State government	Transport Department