



Department of Telecommunications  
Ministry of Communications  
Government of India

**DoT Kerala LSA**

# **4<sup>th</sup> Broadband Committee Meeting UT of Lakshadweep 24 August 2023**



**राष्ट्रीय ब्रॉडबैंड अभियान**  
**National Broadband Mission**

# AGENDA

- 1) Indian Telegraph Right of Way Rules**
- 2) Addendum to Model Building Bye Laws 2016**
- 3) Central ROW Portal(Gati Shakti Sanchar Portal)**
- 4) Mapping of Street Furniture in PM Gati Shakti National Master Plan**
- 5) Utilisation of Call Before U Dig app**
- 6) KLI Project Utilisation**
- 7) BharatNet Project Utilisation**
- 8) Progress of USOF Project for Lakshadweep – Towers and OFC**
- 9) Digital Communication Readiness Index**
- 10) Any other points**

# **Right of Way Policy of UT of Lakshadweep**

## Right of Way Policy of UT of Lakshadweep

- UTL IT Dept issued a letter dated 07.06.2021 adopting the ITROW Rules 2016 stating that UTL being a UT – all rules notified by Govt of India are equally enforceable in UTL also.
- A similar letter may be issued adopting the subsequent amendments of 2017, 2021, 2022 and 2023/ future amendments thereof.
- The RoW rules with amendments also need to be brought to the knowledge of road authorities/ local bodies concerned.

# **Incorporation of Addendum to Model Building Bye Laws 2016 of MoHUA**

## Addendum to Model Building Bye Laws 2016 (MoHUA)

- Buildings need to be constructed in such a way that they are **Digital Connectivity ready**.
- The **common ducts/digital access paths** from outside to all accessible areas within building/premises are part of **Common Telecommunication Infrastructure (CTI)**, which could be used by TSPs/IPs for providing access to telecom services (Optical Fibre Cable, In Building Solutions etc).
- The addendum to Model Building Bye Laws enables the provisions towards achieving the same.

## Addendum to Model Building Bye Laws 2016 (MoHUA)

- UTL had agreed to incorporate the addendum to the Provisions of Model Building Bye Law 2016, published in March 2022 as mentioned in the MoM dated 03.03.2023 of the meeting Hon'ble Administrator had with Hon'ble Minister of Communications.
- Accordingly, UTL has to incorporate the provisions regarding **Common Telecom Infrastructure** as part of its Building Byelaws, at the earliest.

# **Central ROW Portal (Gati Shakti Sanchar Portal)**



# Central ROW Portal (Gati Shakti Sanchar Portal)

- For the Online Right of Way permissions, UTL has already been onboarded to the Central ROW Portal (Gati Shakti Sanchar Portal).
- Some of the long pending configurations have been completed by IT Dept of UTL.
  - Deemed approval configuration flow – Central ROW Rules specify deemed approval if application is not approved or rejected in 60 days. *Configured as per update received from DoT HQ*
  - 5G application fee configuration – *Configured as per update received from DoT HQ*

# Central ROW Portal (Gati Shakti Sanchar Portal)

- Two more features will be added in the Central ROW Portal  
(i) intimation workflow for applications in private land and  
(ii) applications for overground OFC.
- Demo session has been conducted by National Broadband Mission, DoT HQ for the same.
- IT Dept of UTL has to configure the above in the Portal, once it is ready.

# **Mapping of Street Furniture in PM GatiShakti National Master Plan**

# Mapping of Street Furniture

## in PM GatiShakti National Master Plan

- Street furniture are utility poles like Electric poles, billboards, lamp posts, traffic signals, and public structures like bus stops etc.
- With little or no change, they can also be utilized to mount small cells and aerial optical fibre for providing 5G telecom services.

# Mapping of street furniture

## in PM GatiShakti National Master Plan

- All Street Furniture owned by various departments **have to be mapped onto the PM GatiShakti National Master Plan** through the access given to **the Nodal Officer of State Master Plan**.
- Alternatively, the details can be shared in excel sheet (format already shared) to LSA, which will be populated from backend through National Broadband Mission team, DoT HQ



**Call Before U Dig**



# Call Before U Dig (CBuD)

- A tool envisaged for preventing damages to underground assets like Optical Fiber cables, which occur because of uncoordinated diggings and excavations, leading to a loss of about Rs 3000 crore annually to the country.
- The mobile app CBuD will connect Excavators and Asset Owners through SMS/Email notifications & click to call facility, so as to enable planned excavations while ensuring the safety of underground assets.

# Call Before U Dig

- Users for asset owners are created in five levels. UTL has completed creation of State Nodal (L1) – Dept Nodal(L2) – Agency Nodal(L3) – Agency District Nodal(L4).
- The following actions are to be completed. Hon'ble MoC has requested UTL to enhance utilization of CBuD app (MoM dtd 03.03.2023)
  1. **Creation of Taluk level Users** – Agency Taluk/Tehsil Nodal(L5)level **users to be added for each department by the respective Agency Nodal**
  2. **Departments who own underground Assets**, have to **issue orders mandating its officers to respond to messages** from “Call Before u Dig” App and take steps for coordination to mitigate possible damages to their assets.
  3. **Departments who carry out excavation/trenching works** have to **issue orders mandating their excavators (Contractors)** to do any type of digging activity, **only after prior intimation through “Call Before u Dig” App** . They have to raise enquiry/intimate on the CBuD App, atleast 48 Hrs before commencing any type of digging anywhere in the state. This clause shall also be added in the work orders issued.



# Call Before U Dig

4. All authorities (PWD, LSGD etc) giving “excavation permission” for trenching works, has to mention in the permission approval letter “Any agency excavating public places / roads shall report the location on the CBuD App before commencing excavation in the State.”
5. Depts/utilities who have underground assets have to map them in PM GATI SHAKTI National Master Plan Portal.
6. Randomly monitor digging activities and if not informed through CBuD App, take suitable action viz., do counselling, issue Notice etc., and sensitize the excavators to utilize the CBuD App.

# **KLI Project Utilisation**

# KLI Project Utilization

- KLI Project is complete and trial traffic is being routed
- “Provisionally declared fit for commissioning” by BSNL wef 10.07.2023
- Wet Plant(submarine OFC in sea) has been taken under the maintenance of agency SEAIOCMA wef 10.07.2023

# KLI Project Utilization

- Addl Secretary(Telecom) has requested UTL vide DO letter dtd 16 Aug 2023, to
  1. Confirm the Draft tripartite agreement for O&M at the earliest
  2. Review continued use of Satellite Bandwidth since Submarine OFC has ring topology for redundancy in case of damage
  3. Draw up a plan for utilization of KLI submarine OFC cable with monthly targets of broadband connections starting from Aug 2023.

# KLI SMCP - Kochi Lakshadweep Islands Submarine Cable Project

Task Name	Status	Timelines			
		As Per POW		Actual	
		Start	End	Start	End
EIA & CRZ Clearance (TCIL)	Completed	Oct-21	Jun-22	-	-
Survey Permits	Completed	Oct-21	Jan-22	Oct-21	Dec-21
Marine Survey	Completed	Jan-22	May-22	Dec-21	Apr-22
Land Route Survey	Completed	Dec-21	Feb-22	Nov-21	Dec-21
ROW Permits	Completed	Dec-21	Feb-22	Dec-21	July,22
Land Construction	Completed	Feb-22	May-22	Jan-22	July,22
Land Side Permits (BMH)	Completed	Dec-21	Feb-22	Dec-21	April,22
BMH Construction	Completed	Feb-22	May-22	Feb-22	Jun-22
Marine Permits (Cable Laying)	Completed	Aug-22	Jan-23	Sept-22	Jan-23
Submarine Plant Manufacturing & FAT	Completed	Dec-21	Nov-22	Dec-21	Sept-22
Cable Loading & transit	Completed	Dec-22	Jan-23	Jan-23	Feb-23
SM Cable Laying and Testing (incl Custom formalities)	Completed	Feb-23	May-23	Feb-23	Jun -23
Land Cable Manufacturing & Transport	Completed	Jun-22	Sep-22	Jul-22	Sept-22
Land Cable Installation & Testing	Completed	Oct-22	Mar-23	Oct-22	Mar-23
Equipment Manufacturing & FAT	Completed	Oct-21	Aug-22	Dec-21	Aug-22
Equipment Transport and Custom Clearance	Completed	Aug-22	Sep-22	Oct-22	Nov -22
Equipment Installation	Completed	Sep-22	Mar-23	Nov -22	April-23
In-station testing	Completed	Nov-22	Mar-23	Nov-22	April-23 June-23
Segment Testing & Acceptance	Completed	Mar-23	May-23	April-23	June-23

- ❑ KLI SMCP Work completed.
- ❑ Test traffic loading is going on.



# **BharatNet Project Utilisation**



# BharatNet Project Utilisation

## 10 Mbps VSAT connectivity

SL No.	UT	Districts	Census code	Site Status	Last Live Date
1	Lakshadweep	AGATTI	5940	normal	
2	Lakshadweep	AMINI	5941	normal	
3	Lakshadweep	ANDROTT	5942	critical	28-03-2023
4	Lakshadweep	CHETLAT	5943	critical	22-10-2021
5	Lakshadweep	KADMAT	5944	normal	
6	Lakshadweep	KALPENI	5945	normal	
7	Lakshadweep	KAVARATTI	5946	critical	18-07-2023
8	Lakshadweep	KILTAN	5947	normal	
9	Lakshadweep	MINICOY	5948	critical	02-07-2023
10	Lakshadweep	BITRA	931001	critical	22-09-2021

# BharatNet Project Utilisation

- Hon'ble Administrator in his meeting with Hon'ble Minister of Communications, had raised the following issues (Refer MoM 03.03.2023:

- To connect Kalpeni and Bangaram group of islands. DoT agreed to extend the telecom coverage at Bangaram and Kalpeni islands and also at Suheli island. UTL to provide the details of exact locations in this regard.

*Kalpeni group of islands – Cheriya, Thilakkam, Kodithala, Pitti; Bangaram group of islands – Thinnakara, Parali 1 & Parali 2; Islands near Agati – Kalpitti ; BSNL informs that all these islands have mobile coverage; Suheli will be provided.*

- Connectivity to newly created Panchayats. DoT agreed to cover under the BharatNet project the additional panchayats created by the UTLA. UTL to provide the details of exact locations in this regard.

*Creation of new Panchayats – Set aside by Hon'ble High Court*



# **Progress of USOF Project for Lakshadweep – *Towers and OFC***

# Progress of USOF Project for Lakshadweep

## – FTTH in 11 islands

- Terrestrial OFC Network - Executed by BSNL and funded by Universal Service Obligation Fund(USOF) of DoT.
- Augmentation of 225 km terrestrial OFC network in 11 islands for 4G backhaul and FTTH services.

Addl Secretary(Telecom) has requested UTL vide DO letter dtd 24-07-2023

- To ensure 100% utilization of the telecom infrastructure created at a project cost of about Rs 1250 Cr.
- To draw up utilization plan with Monthly targets of broadband connections starting from August 2023 and to implement before the project is formally launched.

# OFC Augmentation Project: Trenching and PLB laying progress

PK G	Islands	Total P.O scope				Work completed (in Km)				Govt office
		Trenching	Pipe 40mm	cable blowing 48F	cable blowing 24F	Trenching in Km	Pipe laying (40mm) in Km	Cable laid 48F	Cable laid 24F	
A	Kavarathi	37.6	63.3	18.38	33.88	30.931	61.611	12.002	20.553	53
B	Minicoy	27.5	34.2	8.17	34.12	13.514	16.834	2.750	10.560	29
C	Agathi & Bangaram	21.8	36.7	18.005	17.34	16.355	32.361	17.391	13.750	24
D	Amini	25.7	45.4	9	24.8	20.115	38.285	8.376	9.650	47
E	Androth	31.2	52.7	17.06	26.5	28.985	52.449	17.010	25.740	45
F	Bitra	2.6	3.5	1.5	2.2	2.000	3.500		0.850	2
	Kilthan	14.5	20	7.5	16	4.790	10.500	0.500	5.605	18
	Chetlet	8.5	15	7.5	10	7.050	13.900	0.100	7.400	28
G	Kadamath	20.18	32.8	8.2	18.8	12.862	24.815		11.038	29
H	Kalpeni	19.5	29	12.4	22.4	0.450	0.550			1
Total		209.1	333	107.72	206	137.05	254.80	58.12	105.14	276

## OFC Augmentation Project: Trenching and PLB laying progress

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- Trenching and pipe laying have commenced, showing advancement across all islands except Benagam and Kalpeni.
- 90% of the material was transported to the islands Furthermore, the tasks encompassing cable blowing and termination is in progress at all other islands.
- Along with that pipe laying and cable laying connectivity to the government office are in progress
- FTTH Progress – 65% trenching completed; 76% Pipe laying completed; 50% of Govt offices covered.

# Progress of USOF Project for Lakshadweep – 4G and Towers

- 18 new towers to be erected; 19 existing towers to be upgraded to 4G from 2G/3G
- All the new sites have been acquired and ready to hand over for implementation. The tender for tower and other infrastructure works is floated by corporate office and is under evaluation.
- The work is expected to award to the vendor before **31<sup>st</sup> of August**. All the new tower and the upgradation works are expected to be completed by 31<sup>st</sup> of Dec.
- Presently there are 10 4G towers;
- Out of 19 planned for upgradation to 4G , 5 have been completed and 5 is in progress with diverted equipment.
- After the upgradation all the 47 towers will be having 4G services. i.e., all the inhabited Islands and the other Islands like Bengaram and Suheli Islands also will be having 4G coverage.



# **Digital Communication Readiness Index**



# Digital Communication Readiness Index

- Created by DoT to map and rank the States based on initiatives and policies for the telecom sector like ROW, policy for shared duct infrastructure, 5G rollout, telecom skilling etc.
- Addl Secretary(Telecom) vide DO letter dated 17.02.2022 has requested CS/Advisors to start preparatory exercises
  - Formation of an Inter Dept Co-ordination Committee(IDCC) under chairmanship of CS/Advisor and IT as Nodal Dept.
  - IDCC should meet quarterly and DoT representative should be member/special invitee for all meetings.
  - IT Dept should start collecting documents and documentation of best practices under each sub-pillar to be initiated

# Digital Communication Readiness Index

## DCRI

### State / UT led Initiatives

#### Sub Pillars

1. Policy for RoW
2. Policy for Shared Duct Infrastructure
3. Policy for Building Codes
4. 5G Rollout
5. Telecom Skilling
6. Infrastructure Support to Telecom
7. Other State policies facilitating telecom sector
8. Institutional access to broadband

### Outcomes that measure impact of State Initiatives

#### Sub Pillars

1. ICT Use
2. Status of Telecom Indicators in the State
3. BharatNet

UTs will be in 1 group for evaluation

Questionnaire with Data Source and Scoring mechanism has already been circulated.





*Any other items*



# BSNL

- Bill Payments to BSNL pending for about Rs 100 crores.
- BMH and JMH in private lands – Acquisition of land by UTL is pending.



*Thank You*