



GOVERNMENT OF INDIA  
MINISTRY OF POWER



*Transmitting hopes, Illuminating lives, Electrifying nation*

**Transmission App  
for  
Real Time Monitoring and Growth**



## AN OVERVIEW OF TRANSMISSION SECTOR IN INDIA

India Transmission Sector has gone a long way since independence and more so in last 40 years. Extensive network of Transmission lines has been developed over these years for evacuation of power produced by different electricity generating stations, connecting to sub-transmission/distribution network and enabling distribution of same to the consumers. Transmission capacity and MVA capacity has seen a phenomenal increase from around 52,000 circuit Km, 47,000 MVA at the end of 6th Five year plan to 3,62,121 Circuit Kms and 7,06,484 MVA respectively as on December 2016.

Nationwide synchronous power grid, interconnecting all the five regional grids, has also been established with the commissioning of 765kV S/c Raichur – Sholapur line in December 2013. Presently, Transmission systems in country are on  $\pm 800$  kV HVDC & 765 kV, 400 kV, 220 kV AC lines. Recently, power flow through 1200 kV National Test Station (NTS) has been commissioned by Power Grid Corporation of India Limited (PGCIL) on 18th May 2016 at Bina, Madhya Pradesh.

PGCIL, a Central Transmission Utility, is responsible for planning & development of Inter State Transmission System (ISTS) under regulated tariff mechanism. In respect of Intra State Transmission System, State Transmission Utilities (STU) (namely State Transco/ SEBs) are responsible for the development.

In order to encourage Competition in Development of Transmission Projects, Ministry of Power, GoI, in year 2006, issued guidelines for Tariff Based Competitive Bidding in Transmission. Ministry of Power, GoI has nominated RECTPCL and PFCCCL as Bid Process Coordinators (BPC's) for Inter State Transmission Projects to be awarded under Tariff Based Competitive Bidding. Since 2007, thirty four Interstate Transmission Projects have been awarded through TBCB process to successful bidders. Integration of Renewable Energy Resources with conventional sources is a top priority of Ministry of Power, GoI and special attention is being given in our country to harness the Green Energy. In order to evacuate power from these projects, development of Green Energy corridors has been put on top priority.

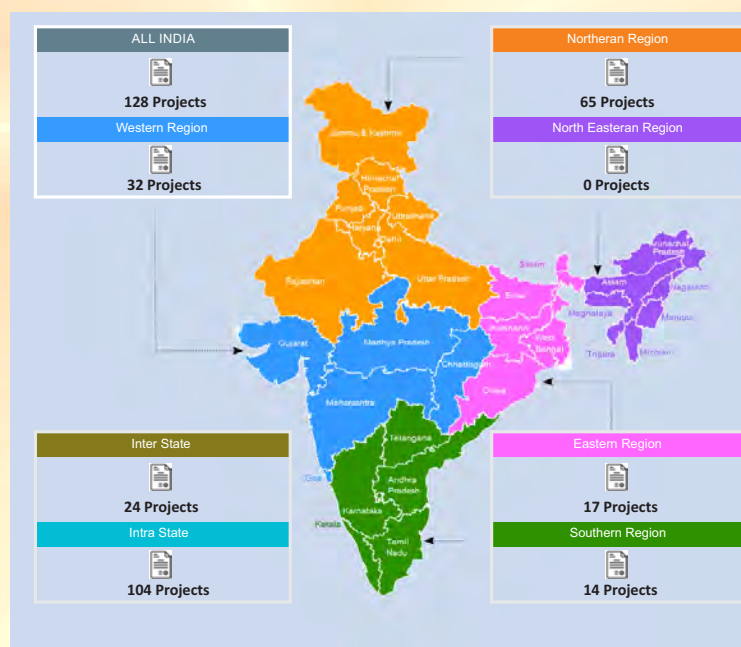
## ABOUT TARANG

It has been the endeavour of various Governments to ensure good governance for citizens. Key to good governance lies in transparency and Information Technology has been a major facilitator in the same. With this perspective of good governance, and keeping in line with the "Digital India" initiative of Government of India, there is a need to establish an IT based Platform to bring the progress of Power Transmission Systems in the country in public domain.

Taking a lead, RECTPCL (REC Transmission Projects Company Limited, a Subsidiary of the PSU, M/S Rural Electrification Corporation Ltd.) has built on TARANG - Transmission App for Real Time Monitoring and Growth - as a mobile app and web interface to track upcoming projects as well as progress of ongoing works in Indian Transmission Systems.

Tarang shall facilitate effective monitoring of progress of Under-Construction Transmission Systems in the country, (both Inter State and Intra State Transmission Projects through Regulated Tariff Mechanism as well as Tariff Based Competitive Bidding (TBCB)). This mobile app/ web portal shall also give details of the prospective upcoming Pan-India Inter State as well as Intra State Transmission projects.

## UPCOMING TRANSMISSION PROJECTS FOR BIDDING

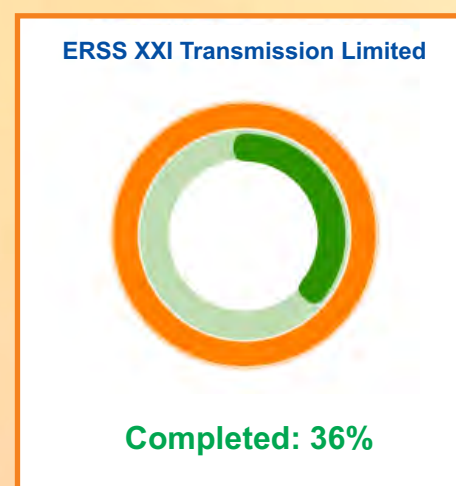
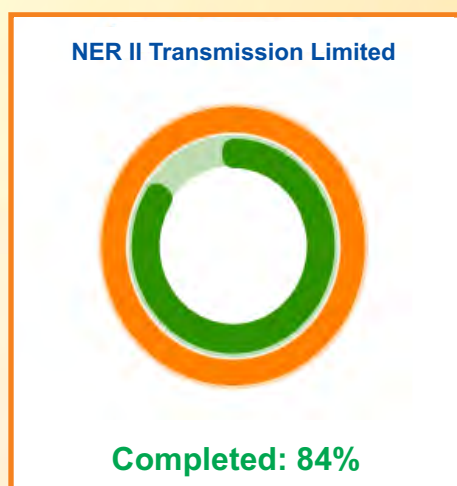


TARANG App/portal shall provide advance information of upcoming transmission systems to facilitate various Stakeholders-Transmission System developers' / equipment manufacturers to gear up for future transmission projects. Details of following projects shall be available:

- Inter State and Intra State transmission projects approved by Standing Committee on Transmission
- Inter State Project approved by Empowered committee on Transmission both under Tariff based competitive bidding (TBCB) as well as under Regulated Tariff Mechanism.
- Intra State Projects being notified by states of their own. The details of such projects along with NITs shall be uploaded by State Transcos.

## TRANSMISSION SYSTEMS UNDER BIDDING (TBCB)

### REC TRANSMISSION PROJECTS COMPANY LIMITED



TARANG app provides information about projects against which bidding process is ongoing through Tariff Based Competitive Bidding (TBCB) mode. Ministry of Power, GoI has nominated two Bid Process Coordinators (BPC's) viz. REC Transmission Projects Company Limited and PFC Consulting Limited. Real time status of Bidding process of such transmission projects shall be in public domain

# TRANSMISSION SYSTEMS UNDER CONSTRUCTION

## All India Transmission Systems : Transmission Lines Progress

To Be Constructed : 100209 ckm  
Progress : 23 %



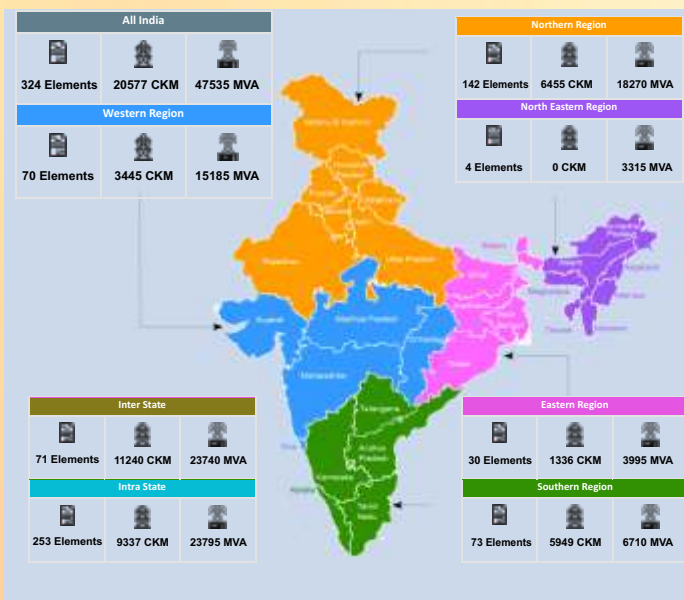
## Zone Wise Transmission Systems : Transmission Lines Progress

Zone	North	South	East	West	North east
Stringing Completed (CKM)	8466	5348	4957	5290	655
To Be Constructed (CKM)	26674	20272	14168	27956	5414



Various Inter /Intra state transmission systems are under construction in the country. It is important to monitor progress of such lines so that corrective action as per need, can be taken in time. Progress of Pan-India Under Construction transmission systems has been provided on TARANG app/Portal. Various options to have quick view of Project status have been provided viz. All India Status, Interstate/ Intra State Project status, Zone wise/ Agency /utility wise progress, Progress of Transmission Systems under Green Energy Corridors etc.

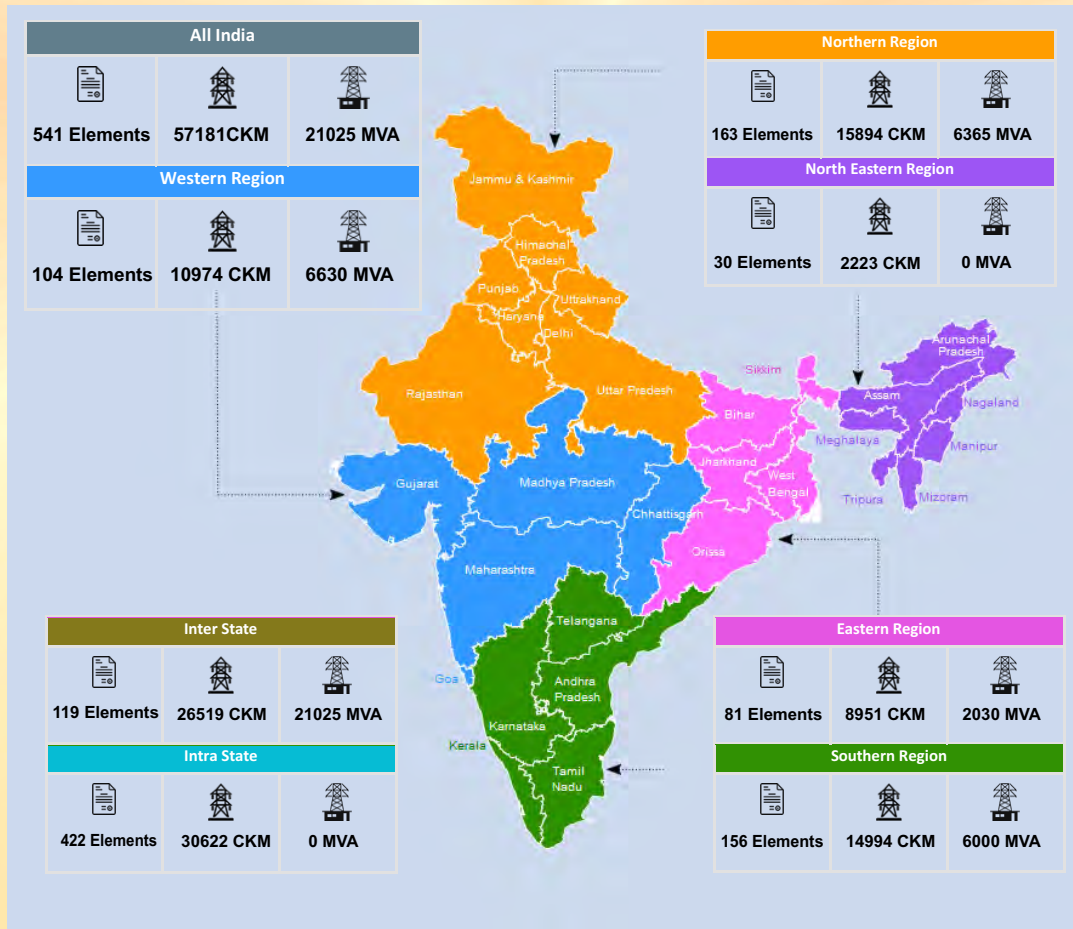
## COMPLETED TRANSMISSION SYSTEMS



India has wide network of transmission systems and TARANG app provides details of completed transmission projects as in :

- Overall Growth of Transmission Systems in India (220 kV upwards) 6th plan onwards
- Details of Transmission Systems completed in ongoing financial year etc.

## DELAYED/STALLED PROJECTS



Transmission systems might get delayed/stalled due to variety of reasons, viz- Right of Way, Forest Clearances, Environmental Clearances, Contractual Issue, Interconnection issues, litigation etc. Details of all such systems is available on portal/app for benefit of various stakeholders.

## STAKE-HOLDERS

1. Ministry of Power
2. Ministry of New And Renewable Energy(MNRE)
3. Central Electricity Authority (CEA)
4. Central Transmission Utility (CTU)
5. State Transmission Utilities (STU)
6. Private Transmission Service Providers
7. POSOCO
8. PSUs-REC, PFC etc

## ***BENEFITS OF APP/PORTAL***

1. All transmission projects being implemented in country would be in public domain, which would further enhance accountability and transparency in Transmission Sector .
2. Prior information of upcoming transmission sector projects would ensure wider participation and fair competition in transmission sector.
3. Real time monitoring of transmission projects undergoing Tariff Based Competitive Bidding(TBCB) route.
4. Effective monitoring of undergoing transmission works, which would further ensure faster completion
5. Separate tracking of delayed/stalled projects, ensuring resolution of pending issues and expeditious implementation.

## ***POWERED BY REC TRANSMISSION PROJECTS COMPANY LTD(RECTPCL)***

REC Transmission Projects Company Limited (RECTPCL) was incorporated in January'2007 as a wholly owned subsidiary of Rural Electrification Corporation Limited (a Government of India Enterprise) with the objective to promote, organize or carry on the business of consultancy services and/or project implementation in any field of activity relating to transmission and distribution of electricity in India or abroad.

RECTPCL has been mandated as Bid Process Coordinator (BPC) by Ministry of Power, GoI for selection of developer as Transmission Service Provider for Inter-State Transmission Projects (ISTP) through Tariff Based Competitive Bidding process. From time to time, Ministry of Power, GoI allocates new transmission projects to the BPC.

Till date, 23 Projects have been allocated to RECTPCL for selection of developer through tariff based competitive bidding process out of which, RECTPCL has concluded the bidding process of 19 Projects.

**Dr. P.V Ramesh, IAS**  
Chairman, RECTPCL  
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CEO, RECTPCL



**REC TRANSMISSION PROJECTS  
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