



## Hello and Welcome!!

At the outset, we would like to thank all the stakeholders for overwhelming response & very useful suggestions and inputs in respect of first edition.

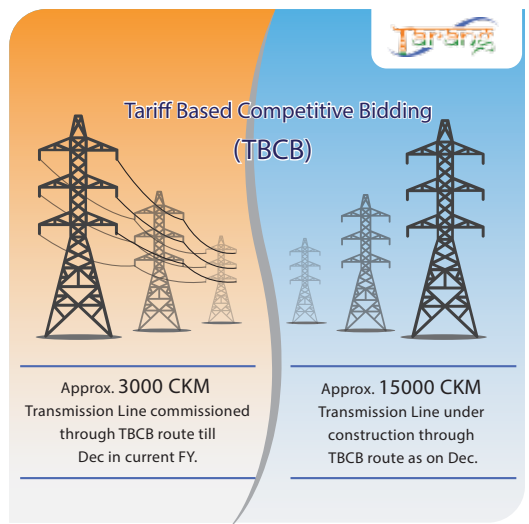
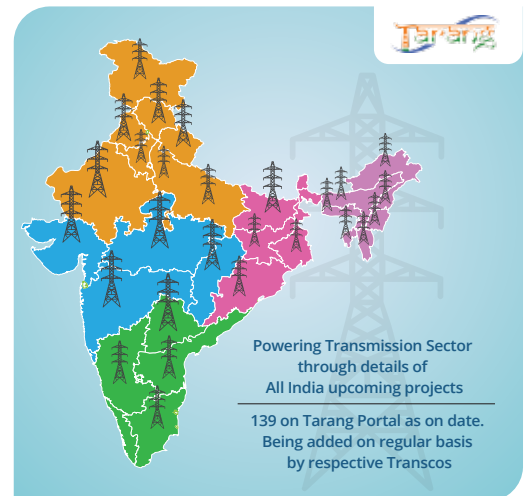
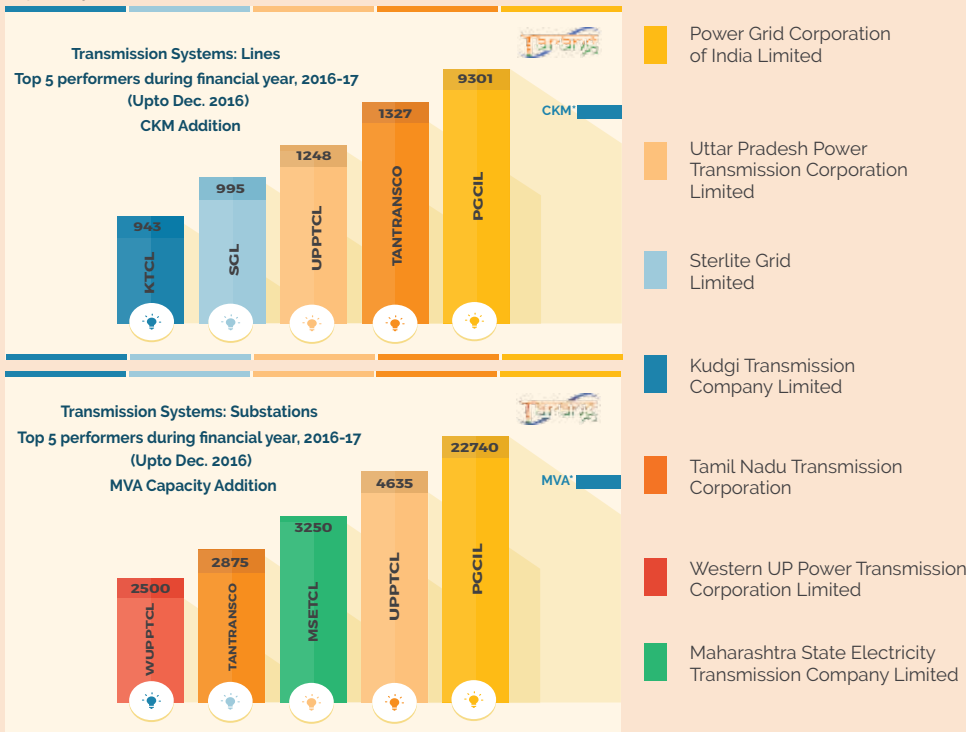
In the backdrop of 68th Republic Day celebrated on 26th Jan, 2017, we would like to highlight few achievements in transmission sector in India since independence:

- Nationwide synchronous power grid, interconnecting all the five regional grids, has been established with the commissioning of 765 KV S/C Raichur-Sholapur line in December 2013.
- Transmission capacity and MVA capacity has seen a phenomenal increase from around 52000 CKM ,47000 MVA at the end of 6th five-year plan to 3,62,121 CKM and 7,06,484 MVA respectively as on December 2016.
- North Eastern Region directly connected with Northern Region in 2016-17 with the commissioning of longest 6000 MW HVDC line ( $\pm$ 800kV) from Bishwanath Chariali in North Eastern Region to Agra in Northern Region for dispersal of power from North Eastern Region to Northern Region/Western Region

RECTPCL also takes this opportunity to wish you all "HAPPY MAHA SHIVRATRI".

## Top 5 Performers in India Transmission sector (As on December 2016):

Power Grid Corporation of India Limited has emerged as Top performer and contributed 9301 CKM and 22740 MVA in the category of Inter-State Transmission Systems. In the category of Intra-State Transmission Systems, Tamil Nadu Transmission Corporation Limited emerged as top performer in addition of Transmission line with commissioning of 1327 CKM transmission lines, Uttar Pradesh Power Transmission Corporation limited has emerged as top performer in transformation capacity addition with commissioning of 4635 MVA transformation capacity.



## A GLANCE AT STATUS OF TRANSMISSION PROJECTS : THROUGH TARANG

### Upcoming Transmission Projects

As on date 139 Projects of Rs. 10,003.99 crores are listed in Upcoming Transmission Projects section of TARANG uploaded by state Transcos & as per minutes of Standing Committee and Empowered Committee.

In the Inter-State Transmission category, 8 Projects worth Rs. 4697 crores are under TBCB mode and 18 projects costing around Rs. 3690.78 crores are under Regulated mode.

In Intra-State Transmission category 113 projects of Rs. 1616.21 crores have been uploaded by State Transcos.

### Completed Transmission Projects

Till date, 20577 CKM of Transmission Lines has been commissioned in FY 2016-17. Hence 88% of the annual target of 23,384 CKM has been achieved by December 2016.

Similarly, 47535 MVA of Transformation Capacity has been commissioned. In FY 2016-17, 105.2% of annual target of 45188 MVA has been achieved as on December 2016.

Power Grid Corporation of India Limited has emerged as lead performer with the addition of transmission lines of 9301 CKM and capacity addition of 22740 MVA during the FY 2016-17.

### Under Construction Transmission Projects

As on date 100209 CKM Transmission lines (42337 CKM under Inter State and 57872 CKM under Intra State) and 284060 MVA (129734 MVA under Inter-State and 154326 MVA under Intra-State Systems) Transformation Capacity work is under progress. Out of above, stringing to the extent of 25836 CKM and testing of transformation capacity to the extent of 4040 MVA has been achieved. In the Inter-State Transmission System 15049 CKM is being implemented through TBCB route and 27288 CKM is being implemented through Regulated Tariff Mechanism.

As on date 1436 CKM and 13000 MVA Transformation capacity for Inter-State Transmission Systems in the category of Green Energy Corridor (connecting green energy generation projects to National Grid ) is under progress, out of which 96 CKM has been completed.

### PROJECTS UNDER TARIFF BASED COMPETITIVE BIDDING (TBCB)

As on date 9 projects with estimated cost of Rs. 11274 crores having Transmission length of 4926 CKM & Transformation capacity of 16322 MVA are under bidding through TBCB mode. Out of which 5 projects at estimated cost of Rs. 6795 crores (8000 MVA Transformation capacity & 3076 CKM) under bidding through PFC and for balance 4 projects having estimated cost of Rs. 4479 crores with Transformation Capacity of 8322 MVA & 1851 CKM, RECTPCL is carrying out bidding process.



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Figures of data at Tarang Portal as received from CEA Website uploaded by TRANSCOs

## INNOVATIONS CORNER - DEPLOYMENT OF DRONES FOR MONITORING\*

Ground inspections are passé for the Indian power sector which is set to deploy drones to cut costs and improve efficiency. Heralding a technological leap in power transmission, the transmission companies in India,



would now use drones for monitoring project development in critical areas. The transmission companies are required to take approval from a committee comprising the ministries of defence, home affairs, power and allied departments.

Drones are unmanned aerial vehicles (UAVs) which can be remotely controlled or can fly autonomously through software-controlled flight plans. While advanced flying robots used in defence can do various things, the drones to be used by power sector would be simpler ones with cameras to capture photos and record videos.

Power transmission companies, which usually have to build infrastructure in inaccessible areas, have applied for drones to reduce their maintenance cost. Power Grid Corporation of India Ltd (PGCIL) is likely to use drones for its project in difficult terrains, said an executive. "The company is likely to experiment drones at two-three sites for now, mostly in hilly areas and in the north-east," he said adding that drones are cheaper and more efficient than hiring helicopters for aerial monitoring.



### KNOW YOUR UTILITY: MP POWER TRANSMISSION COMPANY LTD. #

MP Power Transmission Company Ltd. is one of the leading State owned Transmission Companies of India. Its journey started from the year 2002 and in quest of excellence, the company's performance has been applauded year by year in various quarters over different functional horizons.

Recently MP Power Transmission Company Ltd has been awarded the 8th India Power Awards 2015, in November 2015 by the Council of Power Utilities, New Delhi for its valued contribution to the Energy Sector under the category "Remarkable Projects" for "Construction of 400kV Satpura-Ashta Transmission Line" implemented through Public Private Partnership mode.

The Transmission loss level in the company has been brought down to the level of 2.88% in the year 2015-16, which is significantly lower than erstwhile loss level of 7.93% as prevailing at the time of company's inception in the year 2001-02. Similarly, the Transformation capacity has been brought up to the level of 12600 MW during 2015-16 from the level of 3980 MW in the year of company's inceptions. At the end of Dec. 2016 MP Power Transmission Company Ltd. has a transmission line length of 32212.66 CKM and MVA transformation capacity of 52716 MVA. These parameters indicate the volume of Transmission System strengthening & expansion program under taken in the part 13-14 years.



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\*Source: Bussiness Standard #Source: MPPTCL Website

## TRANSMISSION SECTOR IN NEWS

CEA releases electricity transmission plan : Central Electricity Authority (CEA) has released the draft transmission plan for the 13th Plan period (2017-18 to 2021-22) and perspective plan for the period beyond 2021-22.

Source: [www.cea.nic.in](http://www.cea.nic.in)

Central power regulator proposes hike in transmission charges: Power regulator Central Electricity Regulatory Commission (CERC) has proposed to hike the transmission charges on short-term and medium-term electricity transactions by up to 35 per cent

Source: [www.cercind.gov.in](http://www.cercind.gov.in)

POWERGRID subsidiary commences operation on 765 kV line: Powergrid Warora Transmission Limited, a wholly-owned subsidiary of Power Grid Corporation of India Limited (POWER-GRID), has put into operation the line-in-line-out (LILO) of the existing 765 kV Seoni-Bina single-circuit line at Gadarwara steam-based thermal power station (STPS) in the Indian state of Madhya Pradesh.

Source: [www.powergridindia.com](http://www.powergridindia.com)

POWER GRID awards 800 kV turnkey contracts to ABB-BETHEL consortium: Power Grid Corporation of India Limited (POWER GRID) has awarded a USD840 million contract to ABB-Bharat Heavy Electricals Limited (BHEL) consortium for the execution of the ±800 kV Raigarh-Pugalur high voltage direct current (HVDC) transmission line project.

Source: [www.powergridindia.com](http://www.powergridindia.com)

The last date for submission of the comments on the draft 2nd amendment of CEA (Technical Standards for Connectivity to the Grid), 2007 is extended from 31st December, 2016 to 31st January, 2017 (05:00 PM).

Source: [www.cea.nic.in](http://www.cea.nic.in)

Ministry of power, issues guidelines for cross-border trade of electricity: The Ministry of Power (Mop) has issued guidelines for cross-border trade of electricity. The final draft of the guidelines will be finalized by the power regulator Central Electricity Regulatory Authority (CERC)

Source: [www.cercind.gov.in](http://www.cercind.gov.in)

IEEMA suggests addition of electricity sector to GST regime: The Indian Electrical and Electronics Manufacturers Association (IEEMA) have proposed to the Ministry of Finance to include the electricity sector with the Goods and Services Tax (GST) regimes in the upcoming budget, which will help decrease the Minimum Alternate Tax (MAT), among others.

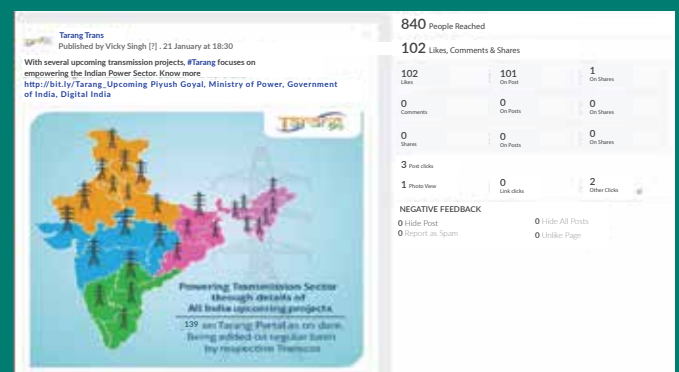
Source: [www.ieema.org](http://www.ieema.org)



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

We heartily welcome our new Chairman Dr. P.V Ramesh to REC family. He is a qualified Doctor from the Christian Medical College & Hospital, Vellore. He joined as CMD, REC & Chairman RECTPCL on January 5, 2017. Dr. Ramesh is an IAS officer of the 1985 batch of Andhra Pradesh Cadre and prior to joining REC, he was the Special Chief Secretary, Environment, Forest, Science & Technology and Development Commissioner in the Government of Andhra Pradesh.

## TARANG IN SOCIAL MEDIA



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