



TARANG NEWSLETTER

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1st Edition 4th Jan 2017

Hello and Welcome!!

REC Transmission Projects Company Limited (RECTPCL) welcomes you all to this first edition of TARANG Newsletter. We hope that this regular newsletter shall help in updating all stakeholders regarding latest activities in Indian Power Transmission Sector and will develop into a powerful tool facilitating Indian Transmission Sector grow in more efficient and transparent manner.

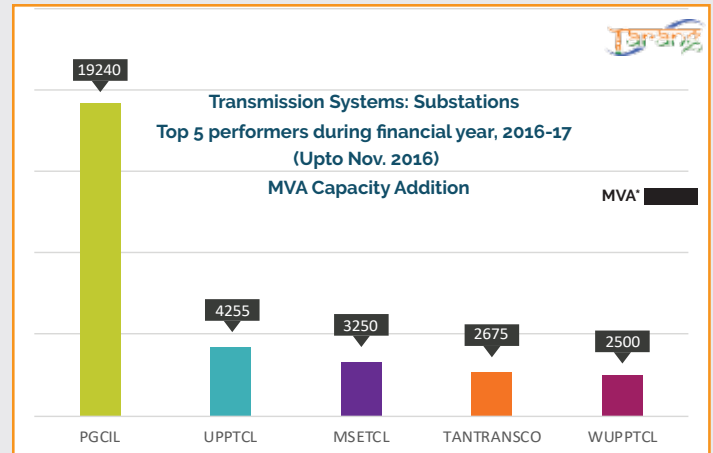
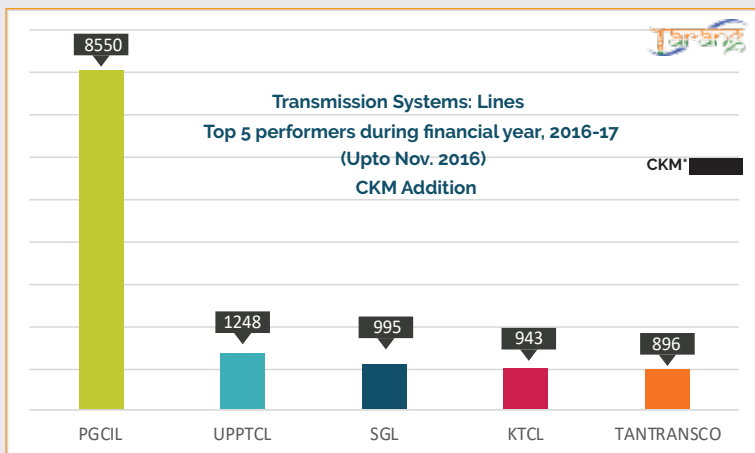
Readers may also send their ideas, details of upcoming events, innovations related to transmission systems so that we can publish the same to help in growth of this Sector. We shall also be reaching out to you through our website i.e. www.tarang.website

RECTPCL also takes this opportunity to wish you all a **Very Happy and Prosperous New Year - 2017.**



Top 5 Performers in the Indian Transmission Sector (as on Nov. 2016)

Power Grid Corporation of India Limited has emerged as top performer and contributed 8550 CKM* and 19240 MVA* in the category of Inter State Transmission Systems. In the category of Intra State Transmission Systems, Uttar Pradesh Power Transmission Corporation Limited has emerged as number 1 utility by adding Transmission Lines of 1248 CKM* and Transformation Capacity of 4255 MVA*



■ Power Grid Corporation of India Limited
 ■ Uttar Pradesh Power Transmission Corporation Limited
 ■ Sterlite Grid Limited
 ■ Kudgi Transmission Company Limited
 ■ Tamil Nadu Transmission Corporation
 ■ Maharashtra State Electricity Transmission Company Limited
 ■ Western UP Power Transmission Corporation Limited



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 Phone: 011-47964796 * Figures of data at Tarang Portal as received from CEA Website uploaded by TRANSCOs

“TARANG” & “e-Trans” LAUNCH

With the perspective of good governance, and keeping in line with the "Digital India" initiative of Government of India, REC Transmission Projects Company Limited (RECTPCL), a wholly owned Subsidiary of Rural Electrification Corporation Limited, has developed **“TARANG” – Transmission App for Real Time Monitoring and Growth** – as a mobile app and web interface. Tarang shall track ongoing transmission projects as well as provide wider participation in bidding process for upcoming projects.

Another Web Portal **“e-Trans”** for e-Bidding and e-Reverse Auction for Tariff Based Competitive Bidding (TBCB) in Transmission Projects has also been introduced. This portal shall bring more transparency, efficiency and competition in transmission sector.

Tarang Web-portal/Mobile app along with e-Trans platform was Launched by Sh. Piyush Goyal, Hon'ble Minister of State (Independent Charge) for Power, Coal, New & Renewable Energy & Mines, Govt. of India at New Delhi, on 17 August 2016.



GROWING CLUB OF PROJECTS UNDER TARIFF BASED COMPETITIVE BIDDING OF TRANSMISSION SYSTEMS

To encourage competition in development of the transmission projects and to attract private investment, Ministry of Power, GoI notified Tariff Based Competitive Bidding (TBCB) Guidelines for Transmission in 2006 and also issued the Standard Bidding Documents (SBD) in 2008.

Since inception, 34 Inter State Transmission Projects have been awarded through TBCB process to successful bidders. Currently bidding process of 9 Interstate Transmission Projects envisaging the construction of 4971 CKM Transmission Lines and 16322 MVA Transformation Capacity with estimated cost of approx. Rs. 11242 Crore is being monitored on Tarang App. Bidders are enthusiastically using Tarang mobile app/web portal to get the real-time information of the bidding process.

“e-Trans” portal for e-Bidding & e-Reverse Auction has also received overwhelming response from all stake holders. After witnessing the success of TBCB in Inter State Transmission Projects, State Transmission Utilities are also planning to construct Intra State Transmission Systems through TBCB route. Currently, bidding process for Uttar Pradesh Power Transmission Corporation Limited (UPPTCL) for their Power Evacuation system for Ghatampur Thermal Power Project is in progress through RECTPCL. Transmission Utilities of Andhra Pradesh, Karnataka, Bihar, Goa, J&K etc. have evinced interest to construct their projects through TBCB route.



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A GLANCE AT STATUS OF TRANSMISSION PROJECTS : THROUGH TARANG

Upcoming Transmission Projects

Details of Upcoming Transmission Projects as approved by Standing Committee & Empowered Committee on Transmission are being uploaded on TARANG Portal. State Transmission Utilities are also uploading NITs of Intra State Transmission Projects TARANG Portal. This shall facilitate wider participation by potential bidders.

As on date, 108 projects of approximately Rs. 9727.18 crore have been uploaded out of which 89 projects of approximately Rs. 1361.8 crore have been uploaded by State TRANSCOs.

Under Construction Transmission Projects

As on date, 102689 CKM* Transmission Lines (43493 CKM* under Inter State and 59196 CKM* under Intra State) and 308306 MVA* (142167 MVA* under Inter State & 166139 MVA* under Intra State systems) Transformation Capacity work is under progress, out of which stringing to the extent of 27687 CKM* and testing of Transformation Capacity to the extent of 7094 MVA* has been achieved. In the Inter State Transmission System 14723 CKM* is being implemented through TBCB route and rest 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 stringing of 56 CKM* has been completed.

Completed Transmission Projects

During the year 2016-17, 17482 CKM* of Transmission Lines and 42005 MVA* of Transformation Capacity has been added in the National Grid.

Power Grid Corporation of India Limited has emerged as number 1 utility by adding Transmission Lines of 7933 CKM* and Transformation Capacity of 17425 MVA* in the category of Inter State Transmission Systems during Last 6 months.

Know Your Utility: Maharashtra State Electricity Transmission Company Limited. (MSETCL)#

Maharashtra State Electricity Transmission Company Limited (MSETCL) was incorporated under the Companies Act, in June, 2005 after restructuring the erstwhile Maharashtra State Electricity Board to transmit electricity from its point of Generation to its point of Distribution.

MSETCL operates a Transmission network of 43059 Circuit KM of Transmission Lines and 619 EHV Substations with 107369 MVA Transformation Capacity. This infrastructure constitutes most of the inter regional as well as Intra-Regional Electric Power Transmission System in the State. Today, MSETCL is the largest state transmission utility in the country.

The company also has the distinction of being the only power utility in the state sector to own HVDC lines. The Company operates a 1504 CKM long, 3582 MVA, 500 KV bi-polar HVDC line from Chandrapur to Padghe. The adoption of predictive maintenance practices has helped the company to reduce interruptions and improve the network's availability to 99.73% (HVAC) & 99.30% (HVDC).

In Fiscal 2015-16, MSETCL transmitted approximately 141766 Million units of electricity, representing approximately 12% of all power generated in India



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

#Source: MSETCL Website

INNOVATIONS CORNER

Sterlite Power Transmission Limited deployed Sikorsky S-64 Sky crane (Heavy-Lift Helicopter)-A first time in the Indian infrastructure sector, to provide power transmission connectivity to the state of Jammu & Kashmir ahead of the schedule. It enabled Sterlite Power to speed up NRSS XXIX Project execution by avoiding dependence on time-consuming conventional ways to transport materials to altitudes of up to 12,000 feet. Sky crane also proved safer for workers and reduced impact on the fragile mountain ecology.

NRSS XXIX Project entails 900 circuit kilometer long transmission line between J&K and Punjab and a 400/220 kV GIS Substation with transformation capacity of 7*105 MVA at Amargarh, in Baramulla District.



TRANSMISSION SECTOR IN NEWS

Hon'ble Prime Minister Shri Narendra Modi dedicated the 3000 MVA, 765/400 kV Banaras GIS Sub-Station to the Nation on 24-10-2016.

Source: www.powergridindia.com

The Central Electricity Regulatory Commission (CERC) has issued draft related to (Sharing of inter-State Transmission Charges & Losses) (Fifth Amendment) Regulations, 2016

Source: www.cercind.gov.in

Comprehensive Award Scheme has been launched by Govt. of India to reward meritorious performance in Power sector with the intention to boost productivity, efficiency and economy in sector.

Source: www.cea.nic.in

Demonetisation positive for power sector: Mercom

Source: Economic Times, 5 Dec 2016

The Central Electricity Regulatory Commission (CERC) has issued the draft related to Long –term Access (LTA) and medium term open access (MOTA) in Inter State transmission and related matters) (Sixth Amendment) Regulations, 2015.

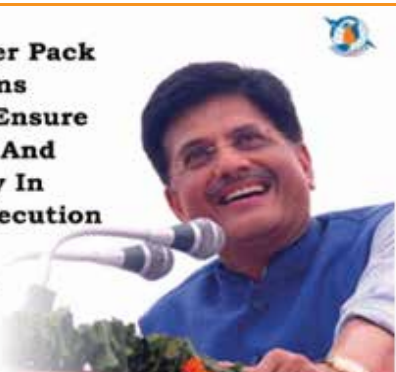
Source: www.cercind.gov.in

The Central Electricity Regulatory Commission (CERC) has issued draft related to Indian Electricity grid code -Draft Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fifth Amendment) Regulation, 2016.

Source: www.cercind.gov.in

TARANG IN MEDIA

**Goyal's Booster Pack
New e-platforms
Launched To Ensure
Transparency And
Accountability In
Award And Execution
Of Power
Transmission
Projects**



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