

## Media Release

# Adani commissions largest Inter-regional 765 KV Warora-Kurnool Transmission line

**This will strengthen national grid, ensure seamless power flow between western and southern regions**

### Editor's Synopsis

- The 1,756 ckm transmission line traverses Maharashtra, Telangana, and Andhra Pradesh
- Adani Energy solutions Ltd. (AESL) expands its presence in all regions of the country with this strategic West to South 765 KV interconnectors and substations
- First time ever crossing of Krishna and Godavari River by introducing midstream megastructures (towers) with unique engineering design
- Usage of new age technologies like drones used in the stringing in areas of low accessibility

**Ahmedabad, 19 October 2023:** The Warora Kurnool Transmission (WKTL), spanning 1,756 circuit kilometers across Maharashtra, Telangana, and Andhra Pradesh, was fully commissioned by Adani Energy Solutions Limited (AESL). The project will strengthen the national grid to ensure seamless power flow of 4500 MW between Western region and Southern region. It will strengthen southern region grid and support large-scale integration of generation from renewable energy sources.

**Background of Asset:** Warora Kurnool Transmission Limited (WKTL) was incorporated in April, 2015 to establish an additional inter-regional alternate current link for import into southern region, i.e., Warora-Warangal and Chilakaluripeta-Hyderabad-Kurnool, along with the creation of a 765/400 kV sub-station in Warangal. WKTL is the largest 765 kV D/C (Hexa conductor) TBCB (tariff-based competitive bidding) project ever awarded under a single scheme. It involved the laying of an 1756 ckm transmission line traversing across Maharashtra, Telangana and Andhra Pradesh and the construction of 765 KV sub-station in Warangal on a build, own, operate and maintain basis. This was awarded on a Tariff-based competitive bid (TBCB) to Essel InfraProjects Ltd in early 2016 and subsequently acquired by AESL in March, 2021 following the stressed debt restructuring undertaken by lenders.

The magnitude of the project can be gauged from the fact that a total of 1,03,000 MT of steel was used for erecting the towers. This equals the amount of material that would be needed to set up 10 Eiffel Towers. A total of 30,154 km of conductor was used for the transmission lines which is comparable to make three rounds of the moon. What makes this important is that the required conductor material is made from specialized alloy.

An engineering and execution marvel, two mid-stream towers of 102 m height each with pile foundations was set up on the Krishna River for the first time ever. Planning and execution was crucial for this, as only a three-month working window was available during the year, when the water level is low in the river. Among the other challenges were the

erection of towers and the stringing of lines duly crossing 116 major power lines, railway electrified tracks and national highways.

Other superlative accomplishments included:

- 1,524 ckm of stringing was completed in 11 months, at a rate of 140 ckm/ month
- 100 MT tower erected per day with average 15 gangs and a peak mobilization of 40 gangs
- Peak mobilization of 2,000 workers across sites
- The project also braved two black swan global events: COVID-19 and Russia-Ukraine war. These caused disruptions in the entire commodity supply chain as well as leading to repeated demobilization and mobilization challenges.

### **About Adani Energy Solutions Limited (AESL):**

AESL, part of the Adani portfolio, is a multidimensional organisation with presence in various facets of the energy domain, namely power transmission, distribution, smart metering, and cooling solutions. AESL is the country's largest private transmission company, with a presence across 14 states of India and a cumulative transmission network of 20,000 ckm and 53,000 MVA transformation capacity. In its distribution business, AESL serves more than 12 million consumers in metropolitan Mumbai and the industrial hub of Mundra SEZ. AESL is ramping up its smart metering business and is on course to become India's leading smart metering integrator. AESL, with its integrated offering through the expansion of its distribution network through parallel licenses and competitive and tailored retail solutions, including a significant share of green power, is revolutionising the way energy is delivered to the end consumer. AESL is a catalyst for transforming the energy landscape in the most reliable, affordable, and sustainable way.

For more information, please visit [www.adanienergysolutions.com](http://www.adanienergysolutions.com)

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