

# Power Boost for India's Growth Hubs

**LOCATION**  
Gurugram, India



## PROVIDING POWER, CONSERVING NATURAL WEALTH IN HARYANA

Under the Gurgaon Palwal Transmission Limited (GPTL) project, we are commissioning three gas-insulated substations and two bays. It faces major concerns regarding right-of-way issues.

### THE CHALLENGES

Working through heavily forested lands and constructing a fully automated gas insulated substation adds to the complexity of the project.

### ACHIEVEMENTS

More than 136 km line once commissioned will deliver over 3,000 MVA to parts of Gurugram and connect other substations located at Palwal, Rangla, Rajpur and adjoining areas of Meerpur and Kurah in Haryana. The aim is to satisfy the growing demand for power in the rapidly developing cities of Gurugram and Palwal – which being the manufacturing and service hubs are key to India's economic development. Innovation in design and engineering enabled us to reduce the space footprint and preserve forested land.

### WHAT WE DID

We formed a dedicated team to simultaneously coordinate and ensure that we receive timely approvals from relevant entities, during the planning phase. We overcame the space constraint vis-à-vis the forested lands, with the construction of vertical substations. Further, we used monopoles in place of the conventional towers, reducing the land footprint by ~80%. This in turn helped preserve the region's forests to a large extent. At the same time, we used micro-piling to create foundation for the monopoles, which also helped minimize the excavation impact on the soil.