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North Karanpura Super Thermal Power Project

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Why is in news? North Karanpura Super Thermal Power Project to provide affordable power to Jharkhand, Bihar, West Bengal & Odisha

The country's largest power generator, NTPC Group capacity crosses 71 GW with successful completion of the trial operation of first unit of 660 MW North Karanpura **Super Thermal Power Project, Jharkhand** (3x660 MW).

The project has been envisaged with Air Cooled Condenser (ACC) which has 1/3rd water footprint as compared to Water Cooled Condenser (WCC).

The Project will **provide affordable power to the states of Jharkhand, Bihar, West Bengal, and Odisha** and has a coal source within a 10-kilometer radius.

The foundation for this NTPC project in Jharkhand was laid in 19 by the then-Prime Minister, Shri Atal Bihari Vajpayee. **This plant is based on one of the most efficient Supercritical Technology.**

Supercritical (SC) and ultra-supercritical (USC) **power plants operate at temperatures and pressures above the critical point of water**, i.e. above the temperature and pressure at which the liquid and gas phases of water coexist in equilibrium, at which point there is no difference between water gas and liquid water.

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