



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

North Karanpura Super Thermal Power Project

Published On: 24-01-2023

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.

Kamaraj IAS Academy

Plot A P.127, AF block, 6 th street, 11th Main Rd, Shanthi Colony, Anna Nagar, Chennai, Tamil Nadu 600040

Phone: **044 4353 9988 / 98403 94477 / Whatsapp : 09710729833**