



# Bhopal's First GIS Ultra High Pressure Substation

## Why In News?

- On September 28, 2022, Madhya Pradesh Energy Minister Pradyuman Singh Tomar said that Madhya Pradesh Power Transmission Company has launched the state's second and Bhopal's first GIS (Gas Insulated Switch Gear Substation) The ultra-high pressure substation has been energized.

## Key Points

- Madhya Pradesh Power Transmission Company has innovated and built this very high pressure substation to strengthen and provide reliability to the transmission network of Bhopal.
- At an estimated cost of about Rs 38 crore, 50 MVA has been constructed in E-8 Arera colony located in the densely populated area of Bhopal. This substation was energized with capacity.
- Energy Minister Pradyuman Singh Tomar said that with the commissioning of this substation, another option of very high pressure substation has been available to Bhopal with the strengthening of the power transmission system in central Bhopal region. This is the 11th ultra-high pressure substation of Madhya Pradesh Power Transmission Company in Bhopal city, which is functional.
- Managing Director of Madhya Pradesh Power Transmission Company, Eng. Sunil Tiwari said that due to non-availability of sufficient land for construction of conventional substations and lines in dense population like Bhopal, Madhya Pradesh Power Transmission Company has started GIS in Bhopal. Decided to prepare substation (Gas Insulated Switch Gear Substation).
- GIS The construction of substations (gas insulated switch gear substations) requires less land than conventional air insulated substations. With this technology, the budget for the construction of the substation is about two and a half times higher than the conventional substation. Due to the stay in the gas insulated chamber, the equipment of these substations malfunctions less. They are also colloquially called 'maintenance free' substations.