State's First GIS Ultra High Pressure Substation made in Indore | Madhya Pradesh | 30 Aug 2022

Why In News?

- On August 29, 2022, Engineer Sunil Tiwari, Managing Director of Madhya Pradesh Power Transmission Company informed that Madhya Pradesh Power Transmission Company has innovated the state's first GIS (Gas Insulated Switch Gear) to provide strength and reliability to the transmission network of metropolitan Indore. sub-station) has been energized.

Key Points

- Managing Director Sunil Tiwari said that in view of the increasing demand for electricity in Indore, Madhya Pradesh Power Transmission Company felt the need for construction of additional sub-stations in Indore city. Due to non-availability of sufficient land for construction of conventional sub-stations in dense population like Indore, Madhya Pradesh Power Transmission Company decided to prepare GIS sub-station (Gas Insulated Switch Gear Sub-station) at Indore.
- 50 MVA in Mahalaxmi Nagar, Indore constructed at an estimated cost of about Rs.36 crore 50 lakh. This sub-station has been energized with capacity.
- This is the first GIS of Madhya Pradesh. It is a very high-pressure sub-station, which is connected to the transmission network of Madhya Pradesh Power Transmission Company.
- With the commissioning of this sub-station, the power transmission system in the eastern region of Indore has been strengthened, Indore has got another option of ultra-high-pressure sub-station.
- GIS The construction of a substation requires less land than conventional air insulated substations. The budget for construction of sub-station with this technology is about two and a half times more than that of conventional sub-station, but Madhya Pradesh Power Transmission Company has approved this construction keeping in view the need of Indore. Being in a gas insulated chamber, the equipment of these substations is less prone to malfunction. These are also called 'maintenance free' sub-stations.