

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.2036
ANSWERED ON 11.12.2025**

WATER SCARCITY IN COAL-BASED POWER PROJECTS

**2036. ADV. CHANDRA SHEKHAR:
SHRI HANUMAN BENIWAL:**

**Will the Minister of POWER
be pleased to state:**

- (a) whether a significant number of coal-based power projects under construction or expansion are located in water-stressed districts, if so, the details thereof, State-wise;**
- (b) whether several of these plants are facing delays or reduced generation due to water shortages, if so, the details thereof including the names of such power plants and districts affected during the last three years;**
- (c) whether the Government has conducted or commissioned any cumulative water availability and use assessment for large thermal projects situated in semi-arid and drought-prone regions and if so, the details thereof; and**
- (d) whether any coal-linked thermal power plant projects have been stalled, scaled down or cancelled due to lack of assured water supply and if so, the details thereof along with the list of such projects, if any?**

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): As per the National Compilation on Dynamic Ground Water Resources of India, 2025 of the Ministry of Jal Shakti, groundwater assessment units (districts, blocks etc) across the country are categorised as Safe (less or equal to 70%), Semi-critical (greater than 70% and less or equal to 90%), Critical (greater than 90% and less or equal to 100%) & Over Exploited (greater than 100%) based on ratio of annual groundwater extraction and replenishment phreatic aquifer. Accordingly, there are three (03) numbers of coal-based power projects under construction or expansion located in water-stressed districts and their details are given at Annexure.

These plants have not reported any delay on account of water shortages.

(c): No such study has been conducted by the Government. Allocation of water for Thermal Power Plants is done by Water Resources Department of the concerned State Government where the project is located and they assess all factors before allocation of water.

(d): Decision related to the size of coal-based thermal power plants are taken by the generating companies / project developers based on their techno-economic and commercial requirements and assessment of local conditions, which includes availability of water. Additionally, new coal-based thermal power plants are also adopting ACC (Air Cooled Condenser) based technology for water conservation, where required, resulting in 60% reduction in water consumption in respect to Cooling Tower system.

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ANNEXURE REFERRED TO IN REPLY TO PART (a) & (b) OF UNSTARRED QUESTION NO. 2036 TO BE ANSWERED IN THE LOK SABHA ON 11.12.2025

Coal-based Thermal Power Plants (TPPs) under construction and awarded located in water-stressed districts

Sl No	State	District	Name of TPP	Utility	Sector	Status (Under Construction/ Awarded)	Category
1.	Uttar Pradesh	Kanpur Nagar	Ghatampur TPP	NUPPL	Central	Under Construction	Semi-critical
2.	Haryana	Yamunanagar	DCR TPP Ext	HPGCL	State	Under Construction	Over Exploited
3.	Rajasthan	Baran	Kawai TPP	Adani Power	Private	Awarded but due for construction	Over Exploited
