

# PARLIAMENT QUESTION: NUCLEAR POWER PROJECTS

प्रविष्टि तिथि: 13 AUG 2026 3:11PM by PIB Delhi

The details of projects under construction are tabulated below.

| Sr.                                                 | Project | Location              | Capacity (MW) | Commissioning Date |                                                                                                                        | Cost (Rs. Crore) |   |
|-----------------------------------------------------|---------|-----------------------|---------------|--------------------|------------------------------------------------------------------------------------------------------------------------|------------------|---|
|                                                     |         |                       |               | Original           | Status/ Revised                                                                                                        | Sanctioned       | 1 |
| Indigenous Pressurised Heavy Water Reactors (IPHWR) |         |                       |               |                    |                                                                                                                        |                  |   |
| 1                                                   | RAPP-7* | Rawatbhata, Rajasthan | 700           | Jun-2016           | Commenced commercial operation on 15.04.2026                                                                           | 12,320           |   |
|                                                     | RAPP-8  |                       | 700           | Dec-2016           | In advanced stage of commissioning (expected to be operational in 2026)                                                |                  |   |
| 2                                                   | GHAVP-1 | Gorakhpur, Haryana    | 700           | Sep-2020           | Completion of construction and commissioning is expected to be completed in about 6 years from First Pour of Concrete. | 20,594           | 1 |
|                                                     | GHAVP-2 |                       | 700           | Mar-2021           |                                                                                                                        |                  |   |

|                                                            |         |                           |      |           |           |        |                |
|------------------------------------------------------------|---------|---------------------------|------|-----------|-----------|--------|----------------|
| 3                                                          | KAIGA-5 | Kaiga,<br>Karnataka       | 700  | June-2026 | June-2031 | 21,000 | Under revision |
|                                                            | KAIGA-6 |                           | 700  | June-2027 | June-2032 |        |                |
| 4                                                          | PFBR    | Kalpakkam,<br>Tamil Nadu  | 500  | Sep-2010  | Mar- 2027 | 3492   | Under revision |
| <b>Light Water Reactors (LWR) with Foreign Cooperation</b> |         |                           |      |           |           |        |                |
| 5                                                          | KKNPP-3 | Kudankulam,<br>Tamil Nadu | 1000 | Mar-2023  | Jun-2027  | 39,849 | 68,893         |
|                                                            | KKNPP-4 |                           | 1000 | Nov-2023  | Jun-2028  |        |                |
| 6                                                          | KKNPP-5 |                           | 1000 | Dec-2026  | Jun-2029  | 49,621 | 69,437         |
|                                                            | KKNPP-6 |                           | 1000 | Sep-2027  | Mar-2030  |        |                |

\*Already commenced production in April 2026. However, cost available on Twin Unit basis (RAPP-7 & RAPP-8)

The year-wise details of the funds sanctioned, released and utilized for each project under construction during the last five years are attached as Annexure.

The major reasons for delay in construction/ commissioning of projects in the recent past have been due to extensive design changes following the Fukushima incident in Japan, delay in supply of critical equipment, Covid-19 pandemic & related issues, delay in supplies from Russian Federation (for KKNPP), delay in execution of works by contractors at site on account of financial crunch / cash flow problems post Covid, difficult site soil conditions (at GHAVP), shortage of skilled contractor manpower, and the impact due to ongoing Russia-Ukraine and USA/ Israel-Iran geopolitical conflict.

To address the challenges, various measures are being implemented to ensure timely completion of the projects. The measures include, periodic project reviews at multiple levels in NPCIL & DAE, constant monitoring of progress of project activities, timely identification of constraints & making necessary mid-course corrections, frequent meetings with vendors/ contractors to resolve various issues and re-sequencing of construction activities to the extent possible, higher delegation of powers to various executives of NPCIL and constitution of Board sub-committee for monitoring of projects. In addition to this, bulk ordering of long

delivery equipment has been adopted and many equipment are under manufacturing/ progressive delivery for various reactors being implemented in fleet mode to ensure timely supply of long lead items for the projects.

Upon progressive commissioning of the projects currently under construction, a cumulative capacity of 8000 MW would be added to the national grid.

#### Annexure

The year-wise details of Equity Sanctioned, Released and Utilized for each project under construction during the last five years are tabulated below:

*Amount in Rs. Crore*

| Name of the Project | 2021-22           |                 |                 | 2022-23           |                 |                 | 2023-24           |                 |
|---------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|
|                     | Equity Sanctioned | Equity Released | Equity Utilized | Equity Sanctioned | Equity Released | Equity Utilized | Equity Sanctioned | Equity Released |
| GHAVP-1&2           | 540               | 141             | 141             | 1952              | 577             | 577             | 1990              | 254             |
| KKNPP-5&6           |                   | 363             | 363             |                   | 1375            | 1375            |                   | 1584            |
| CMAPP-1&2           |                   | 7               | 7               |                   | 0               | 0               |                   | 12              |
| MBRAPP-1to 4        |                   | 15              | 15              |                   | 0               | 0               |                   | 23              |
| KAIGA-5&6           |                   | 8               | 8               |                   | 0               | 0               |                   | 102             |
| GHAVP-3&4           |                   | 6               | 6               |                   | 0               | 0               |                   | 14              |
| Total               | 540               | 540             | 540             | 1952              | 1952            | 1952            | 1990              | 1990            |

The year-wise details of Equity Sanctioned, Released and Utilized for PFBR during the last five years are tabulated below:

| Name of the Project | 2021-22           |                 |                 | 2022-23           |                 |                 | 2023-24           |                 |
|---------------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|
|                     | Equity Sanctioned | Equity Released | Equity Utilized | Equity Sanctioned | Equity Released | Equity Utilized | Equity Sanctioned | Equity Released |
| PFBR                | 550               | 550             | 550             | 272               | 200             | 200             | 200               | 200             |

This information was given by the Minister of State (Ind. Charge) Science & Technology; Earth Sciences and Minister of State PMO; Personnel, Public Grievances and Pensions; Department of Atomic Energy and Space Dr. Jitendra Singh in a written reply in Rajya Sabha today.

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