

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
LOK SABHA
UNSTARRED QUESTION NO-255
ANSWERED ON- 24/07/2024

NUCLEAR POWER PLANTS/ REACTORS

255. SHRI ANTO ANTONY
SHRI K RADHAKRISHNAN
SHRI K SUDHAKARAN

Will the PRIME MINISTER be pleased to state:-

- (a) the total number of nuclear power plants and nuclear reactors operational in the country along with the production capacity;
- (b) the total number of nuclear power plants and nuclear reactors planned for construction in the country;
- (c) the budgetary expenditure on construction of new nuclear power plants during the last five years; and
- (d) the details of the measures taken/being taken by the Government to modernize the nuclear power plants in the country?

ANSWER

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS
AND PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH)

- (a) There are presently 24 nuclear power plants in operation in the country with a total capacity of 8180 MW.
- (b) There are nine (09) reactors with a total capacity of 7300 MW [including Prototype Fast Breeder Reactor (PFBR) by Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)] under construction and twelve (12) reactors with a capacity of 8000 MW [including 2 X 500 MW twin unit of Fast Breeder Reactors (FBR) 1 & 2 by BHAVINI] under pre-project activities.
- (c) The total capital expenditure on nuclear power projects under construction during the last five years (2019-20 to 2023-24) was about Rs. 66,503 crore, of which only Rs.6552 crore was from Domestic Budgetary Support (DBS). The remaining amount was funded from Internal and Extra Budgetary Resources (IEBR) of NPCIL and Russian State Credit for Kudankulam (KKNPP 3&4 and KKNPP 5&6) projects.
- (d) Safety and performance of nuclear power stations are constantly monitored, reviewed and necessary improvements/ upgrades are effected in nuclear power plants based on evolving global standards and operating experience feedback to modernize the plants. Major Renovation of reactors like Enmasse Coolant Channel Replacement (EMCCR), Enmasse Feeder Replacement (EMFR), Enmasse Boiler Hairpin Replacement (EMBHR) etc. are also undertaken to enhance the safety and life of the reactors.
