

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO-11
ANSWERED ON 29/01/2026

SMR DEVELOPMENT PROGRAMME

11. SHRI NARAYANA KORAGAPPA

Will the PRIME MINISTER be pleased to state:-

- (a) whether Bharat Small Modular Reactor (SMR) designs have reached an advanced engineering stage;
- (b) if so, the expected timelines for construction and commissioning of the first SMR unit;
- (c) the funds allocated so far for research, design and demonstration of SMRs;
- (d) whether domestic industry and academic institutions are participating in the SMR development programme; and
- (e) if so, the details thereof?

ANSWER

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

- (a) & (b) 220 MWe Bharat Small Modular Reactor (BSMR-200) is being jointly designed and developed by Bhabha Atomic Research Centre (BARC) and Nuclear Power Corporation of India Limited (NPCIL). The concept of BSMR has been completed and detailed engineering of BSMR is in progress. Estimated time for construction of BSMR is 60 to 72 months from receipt of financial approval.
- (c) Under the Nuclear Energy Mission, the Government has allocated Rs.20,000 crore in Union Budget 2025-26 for research and development of Small Modular Reactors (SMRs), aiming to operationalize five indigenously develop SMRs by 2033.
- (d) & (e) Necessary technology for development and deployment of SMRs is available in the country and majority of equipment are within manufacturing capability of Indian Industries with technological handholding by BARC. Development of critical items such as low alloy steel forgings required for manufacturing the reactor pressure vessel and reactivity control drive mechanisms have been realized through domestic industry. Development works for other critical equipment have been initiated with the domestic industry.
