

GOVERNMENT OF INDIA
DEPARTMENT OF ATOMIC ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO-1923
ANSWERED ON 12/12/2024

SMALL NUCLEAR REACTORS

1923. SHRI YERRAM VENKATA SUBBA REDDY

Will the PRIME MINISTER be pleased to state:-

- (a) whether it is a fact that India's small nuclear/modular reactors of 30 MW to 300 MW are getting traction at the global level;
- (b) whether it is also a fact that Russia evinced its interest in collaborating with the Indian companies in small nuclear reactors; and
- (c) the manner in which India is planning to make small nuclear reactors commercially competitive in the world and ultimately become leader in small nuclear reactors manufacturing and supplying?

ANSWER

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

- (a) India has only recently announced its plans to deploy Bharat Small Reactors (BSRs) (220 MWe PHWRs) and develop Bharat Small Modular Reactors (BSMRs). In this context, Research & Development has been initiated for BSMRs. The deployment of these reactors will be aimed at sector which have captive power requirements. Many countries have shown interest in collaborating with India for SMRs. The various options are in exploration stage at present.
- (b) Yes.
- (c) The Government has announced initiatives to set up Bharat Small Reactor and involve Private sectors in the nuclear energy programme of the country. Supply Chain of BSRs are already established in the country with several in operation with excellent safety features and record continual operation. BSRs, today, are one of the cheapest amongst the SMRs in the world.

In addition R&D for development of a Bharat Small Modular Reactor (BSMR) and new technologies for nuclear energy has been initiated.
