

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:4293
ANSWERED ON:16.12.2009
INDIAN PLASMA RESEARCH INSTITUTE
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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the Indian Plasma Research Institute in Gandhi Nagar, Gujarat has developed a new fusion technology;
- (b) if so, the details thereof; and
- (c) the steps taken by the Government to popularise this technology?

Answer

THE MINISTER OF STATE FOR SCIENCE & TECHNOLOGY AND EARTH SCIENCES (INDEPENDENT CHARGE), PMO, PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND PARLIAMENTARY AFFAIRS (SHRI PRITHVIRAJ CHAVAN)

(a) & (b) The Institute for Plasma Research is engaged in conducting scientific research and technology development related to achieving magnetically confined thermonuclear fusion. Towards this objective the Institute has built a state-of-the art research Tokamak (SST-1) using superconducting magnets and is in the process of commissioning it. In addition, a number of necessary auxiliary advanced technical systems necessary to carry out experiments on the Tokamak have also been developed. These include energetic neutral beam systems, radio frequency heating sources and sophisticated diagnostics.

(c) The Department of Atomic Energy has been actively supporting this R&D work and also promoting sharing of these technologies among national institutes, universities and national industries.