

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:4869
ANSWERED ON:20.12.2000
INSTALLATION OF PROTOTYPE FAST BREEDER REACTOR
C. KRISHNAN

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the Government propose to instal Prototype Fast Breeder Reactor at the Indira Gandhi Centre,Kalpakkam in Tamil Nadu for Atomic Research;
- (b) if so, the details thereof;
- (c) whether the statutory clearance from Tamil Nadu Pollution Control Board, Atomic Energy Regulatory Board etc. has been obtained for the purpose;
- (d) if not, the reasons therefor; and
- (e) the time by which installation work of the reactor is likely to commence?

Answer

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY(SMT. VASUNDHARA RAJE)

(a) Yes, Sir.

(b) The Prototype Fast Breeder Reactor (PFBR) is a pool type sodium cooled Reactor with a capacity of 500 MWe. The design work of PFBR for the Nuclear Steam Supply Systems and also the Fuel Handling System are in an advanced stage of completion. The materials specifications, drawings and manufacturing specifications for major components are getting ready. Consulting Engineers have been appointed for System Engineering and the Plant Layout works for the Balance of Plant, for the pre-paration of the Detailed Project Report (DPR). The DPR is targeted to be submitted for obtaining financial sanction by the end of June, 2001.

The R&D Activities, aimed at validation of PFBR design are being carried out both in-house and in collaboration with various R&D Organisations and industries.

Manufacturing Technology development is being carried out for major critical components of PFBR with the active participation of Indian industries, in order to solve the problems in advance & also to reduce the construction time.

(c) & (d) The Atomic Energy Regulatory Board has approved the site for installation of PFBR at Kalpakkam. The Preliminary Safety Analysis Report is under evaluation by the Project Design Safety Committee Constituted by AERB and is expected to be completed by March, 2001. The Environmental Impact Assessment Report prepared by the Consultants M/s. MECON is ready for submission to Tamil Nadu Pollution Control Board.

(e) The construction work of PFBR is expected to be commenced towards end of 2001.