

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:340

ANSWERED ON:23.11.2011

STUDY OF NUCLEAR INSTALLATIONS CAPACITY

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Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the Government has appointed expert groups to study the nuclear installations capacity to withstand massive seismic shocks following the Fukushima quake-tsunami disaster in Japan;
- (b) if so, the details thereof;
- (c) whether all nuclear installations in the country have passed structural tests conducted by expert groups;
- (d) if so, the details thereof;
- (e) whether all preventive measures suggested by the expert groups have been accepted by the Government; and
- (f) if so, the details thereof and the progress made in implementation of these preventive measures?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (SHRI V. NARAYANASAMY)

(a) & (b) The Central Government had directed Nuclear Power Corporation of India Limited (NPCIL) to conduct a safety review of all nuclear power stations in operation and of those under construction in the context of the Fukushima incident, including their ability to withstand extreme external events like earthquakes and Tsunamis. Accordingly, NPCIL constituted task forces, four for the reactors of different technologies in operation and two for reactors of different technologies under construction. In parallel, a committee was also constituted by the Atomic Energy Regulatory Board (AERB) to review the safety of nuclear power reactors in operation and under construction.

(c) & (d) The NPCIL task forces and AERB committee have carried out extensive re-evaluation of the safety status of nuclear power plants based on permissible stress values in structures, components and equipment. The analysis concluded that adequate margins exist in the structures, equipment, systems etc. to withstand extreme external events including seismic shock waves several times the design values. The reports of NPCIL task forces and AERB committee have been made public and are also posted on DAE/NPCIL and AERB web sites, respectively.

(e) & (f) The recommendations made by the task forces and committee to further enhance the safety of the nuclear power plants have been accepted. A road map for implementation of the recommendations in time bound manner has also been drawn up. The process of implementation of recommendations has commenced