## GOVERNMENT OF INDIA ATOMIC ENERGY LOK SABHA

UNSTARRED QUESTION NO:452 ANSWERED ON:23.02.2011 WATER REACTORS Chavan Shri Harischandra Deoram

## Will the Minister of ATOMIC ENERGY be pleased to state:

(a) whether Pressurised Water Reactors (PWRs) are the latest technology available in Nuclear Power Generation; and

(b) if so, the action taken/proposed to be taken to replace existing nuclear reactors of Tarapur Atomic Power Plant with PWRs for better results?

## Answer

THE MINISTER OF STATE FOR PARLIAMENTARY AFFAIRS, PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PMO (SHRI V. NARAYANASAMY) :

(a) State of the art designs based on different nuclear fuels are available in different types of nuclear power reactor technologies. These are Pressurised Heavy Water Reactors (PHWRs), Boiling Water Reactors (BWRs), Pressurised Water Reactors (PWRs) and Fast Breeder Reactors (FBRs). Each of these technologies has distinct advantages and the reactor choice is country specific. Out of the 442 nuclear power reactors in operation world over, there are 269 PWRs, 92 BWRs, 47 PHWRs and 1 FBR.

(b) There are two first generation BWRs – TAPS 1&2 (2x160 MW) and two latest PHWRs – TAPS 3&4 (2x540 MW) in operation at Tarapur in Maharashtra. TAPS-1&2 has also been brought to the state of the art by upgradation and life extension measures. There is no proposal to replace the existing reactors at Tarapur.