

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:3263
ANSWERED ON:25.04.2012
CAPACITY AUGMENTATION
Sugumar Shri K.

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the bulk of capacity augmentation by Nuclear Power Corporation of India Ltd. (NPCIL) will be through larger sized indigenous 700 MWs PHWRs or pressurized heavy water reactors and imported light water reactors;
- (b) if so, the details thereof;
- (c) whether the NPCIL has already shortlisted the names of suppliers; and
- (d) if so, the details thereof?

Answer

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

(a)&(b) NPCIL plans to augment the nuclear power capacity in the country by setting up indigenous Pressurised Heavy Water Reactors (PHWRs) of 700 MW each and Light Water Reactors (LWRs) of 1000 MW and higher capacity based on foreign technical cooperation. Presently, four 700 MW PHWRs are under construction at Kakrapar, Gujarat (KAPP 3 & 4) and Rawatbhatta, Rajasthan (RAPP 7 & 8). Two LWRs are at commissioning stage at Kudankulam (KKNPP 1&2 – 2 x 1000 MW). The XII Plan proposals envisage start of work on eight 700 MW PHWRs and eight LWRs, 1000 MW or larger capacity and two fast breeder reactors. These are planned to be completed in phased manner between XIII Plan and early XIV Plan. More nuclear power reactors comprising indigenous 700 MW PHWRs, 1000 MW or larger capacity LWRs and fast breeder reactors are planned to be set up in future.

(c)&(d) The 700 MW PHWRs are of indigenous design. These reactors are planned to be set up by NPCIL and / or its Joint Venture Companies. The LWRs are planned to be set up in technical cooperation with the four major reactors vendors in the world – Atomstroyexport (ASE) of Russian Federation, Areva of France, Westinghouse Electric Company (WEC) and GE Hitachi Nuclear Energy (GEH) of the USA. The LWRs are planned to be implemented with a shared scope of work. The technology, engineering and supply of critical equipment is envisaged from the foreign vendors whereas the supply of balance of equipment, construction, equipment erection, commissioning and operation by Indian side.