

**GOVERNMENT OF INDIA
HEAVY INDUSTRIES AND PUBLIC ENTERPRISES
LOK SABHA**

UNSTARRED QUESTION NO:1914

ANSWERED ON:11.08.2011

SUPPLY OF REACTORS FOR ATOMIC PROJECTS

Hegde Shri Anant Kumar;Singh Shri Rajiv Ranjan (Lalan)

Will the Minister of HEAVY INDUSTRIES AND PUBLIC ENTERPRISES be pleased to state:

- (a) whether a claim is being made by the Bharat Heavy Electricals Limited (BHEL) that it could supply reactors for atomic projects based on indigenous reactor technology;
- (b) if so, the facts in this regard;
- (c) whether BHEL can meet the requirement of the country in this regard;
- (d) if so, the details thereof; and
- (e) the details of contributions made by the BHEL in indigenous projects so far?

Answer

MINISTER OF HEAVY INDUSTRIES AND PUBLIC ENTERPRISES (SHRI PRAFUL PATEL)

(a): Madam, so far, BHEL has manufactured and supplied certain Nuclear Reactor components like Steam Generators, Reactor Headers, end shields to Nuclear Power Corporation of India Ltd (NPCIL) for their 220 MWe and 540 MWe reactors based on Pressurized Heavy Water Reactor (PHWR) Technology. BHEL can consider supplying reactors for Atomic Power projects based on indigenous reactor technology if NPCIL gives complete technical knowhow since the indigenous reactor technology is developed by NPCIL.

(b): NPCIL has developed designs for indigenous reactors for their 220 MWe, 540 MWe and 700 MWe ratings Nuclear Power Plants based on Pressurized Heavy water Reactor (PHWR) technology. As per NPCIL Programme, around 20 Units of 700 MWe have been planned, out of which 4 units are under construction. BHEL is supplying Steam Generators for 2 units and Reactor Header assembly for 4 units.

(c): Yes Madam. BHEL can meet requirement of the country for the projects being developed by NPCIL with indigenous reactor technology.

(d): BHEL is currently augmenting its manufacturing facilities from 15,000 MW p.a. to 20,000 MW p.a. As a part of this initiatives, Trichy unit of BHEL has established its manufacturing capability for supply of Reactor side equipment like Steam Generator and Pressure Vessels.

(e): BHEL's contribution to country's Nuclear Power capacity is around 67%. BHEL has supplied 10 Nos. Steam Generators and 12 Nos. Steam Turbine Generator sets alongwith associated auxiliaries. Further, 7 Units totaling to 5300 MWe Nuclear Power Projects are under construction wherein BHEL is supplying Steam Generators for 1400 MWe (2 sets of 700 MWe), and Steam Turbine Generator sets for 1900 MWe (2 units of 700 MWe and 1 unit of 500 MWe). It is also undertaking erection and commissioning of conventional Island for all the 5 Units including 1000 MWe sets being supplied by Russians under bilateral agreement with Russia.