

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:4290
ANSWERED ON:18.12.2014
COST OF HYDRO POWER GENERATION
Ering Shri Ninong

Will the Minister of POWER be pleased to state:

- (a) whether per megawatt cost of Hydro power generation is lower than that of Thermal, Gas and Nuclear based power generation;
- (b) if so, the details thereof including the cost differences and the estimated potential of Hydro- Power generation in the country including North East;
- (c) the projects taken up by the Government to utilize the said potential; and
- (d) the time by which the projects are expected to be made operational?

Answer

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER, COAL AND NEW & RENEWABLE ENERGY (SHRI PIYUSH GOYAL)

(a) & (b) : The per megawatt cost of Hydro, Thermal, Gas and Nuclear Power Projects commissioned in the recent past has been in the range as given below:

Hydro Power Projects : Rs.5.22 Crores to Rs.12.33 Crores
Thermal Power Projects : Rs. 4.76 Crores to Rs. 7.19 Crores
Gas Power Projects (CCGT) : Rs. 3.46 Crores to Rs. 4.79 Crores
Nuclear Power Projects : Rs. 6.02 Crores to Rs. 6.35 Crores

As per the re-assessment studies of hydro-electric potential carried out by the Central Electricity Authority

(CEA) during 1978-87, the hydro power potential in terms of Installed Capacity (I.C.) of the country including North Eastern Region (NER) is assessed as 148701 MW, out of which 145320 MW of the potential consists of Hydro Electric (HE) schemes having I.C. above 25 MW.

(c) & (d): Of the assessed potential, Hydro-Electric Projects (HEPs) having aggregate installed capacity of 36080.9 MW have been commissioned, as on 15th December, 2014. In addition, Pumped Storage Schemes having aggregate installed capacity of 4785.60 MW are also under operation.

Presently, 46 nos. of HEPs (above 25 MW) aggregating to 13138 MW are under various stages of construction in the country. In addition, 2 Nos. pumped storage schemes having aggregate installed capacity of 1080 MW are under construction. 38 hydro electric schemes aggregating to an installed capacity of 24736 MW have been cleared by CEA which are yet to be taken up for construction due to various reasons. Also, Detailed Project Reports of 19 H.E. schemes aggregating to an installed capacity of 9378 MW are under examination for accord of concurrence by CEA.