

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOK SABHA
UNSTARRED QUESTION NO. 1636
TO BE ANSWERED ON 27.07.2018

High Power Computing System

1636. SHRI K.R.P. PRABAKARAN:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) whether his Ministry has taken any efforts to install of Pratyush High Power Computing System and if so, the details thereof;
- (b) whether the High Power Computing System would help in improving weather and climate prediction and forecast systems also predict cyclones and tsunamis accurately and help in seismological studies; and
- (c) if so, the details thereof?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(DR. MAHESH SHARMA)

- (a) The Government of India, Ministry of Earth Sciences has installed High Power Computer (HPC) “Pratyush”, which is a 4.0 Peta Flops Super Computing system at the Indian Institute of Tropical Meteorology, Pune and another HPC system “Mihir” of 2.8 Peta Flops at the National Centre for Medium Range Weather Forecasting, Noida.
- (b) & (c) These HPC facilities are expected to improve weather forecasts at block level over India which can predict extreme weather events; High resolution seasonal/extended range forecasts of active/break spells of Monsoon; High resolution coupled models for prediction of cyclones with more accuracy and lead time; Ocean state forecasts and Tsunami forecasts; and Climate projections at very high resolution.
