GOVERNMENT OF INDIA

MINISTRY OFCOMMUNICATION AND INFORMATION TECHNOLOGY

RAJYA SABHA

QUESTION NO19.11.2009

ANSWERED ON

GRID COMPUTING SYSTEM

16 SHRI GIREESH KUMAR SANGHI

Will the Minister of COALCOALEXTERNAL AFFAIRSCOMMUNICATION AND INFORMATION TECHNOLOGY be pleased to state :-

(a)the advantages of introducing Grid Computing system;

(b)the various projects and programmes in the area of grid computing; and

(c)in what manner grid computing will enhance research competences in emerging areas of Information and Technology?

ANSWER

MINISTER OF STATE FOR COMMUNICATIONS AND INFORMATION TECHNOLOGY

(SHRI SACHIN PILOT)

(a): The advantages of introducing Grid Computing system is to enable solving of large problems using heterogeneous Computer resources ax geographically distributed locations, which are connected through a high speed network. The computing resources thus mobilised enable high performance computing at a lower cost and also result in better utilisation of resources.

(b): Many countries are having Grid Computing In itiatives. The major initiatives in India are: L Garuda - Developed and deployed by Centre, for Development of Advanced Computing (C-DAC). The Garuda Grid connects 45 academic and K`.&D institutions in 17 cities. DAE Grid - The Grid developed by Dept of Aton lie Energy (DAE) connects three DAE sites.

OSDD Grid-The Grid for Open Source Drug Discovery (OSDD) is an initiative of Council of Scientific and Industrial Research (CSIR) to connect throve major HPC centres.

The Indian Segment of world wide Large Hadron Collider (LHC) Computing Grid has been established in India to participate in LHC experiment of CERN in Geneva.

(c): Access to High end computing resources is becoming essential to enhance competencies in scientific research. The Grid Computing enables access to high performance Compute resources, as well as sharing of Data Bases, to all the researchers connected on the Grid. It also enables national and international collaborative research.