

**GOVERNMENT OF INDIA
ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA**

UNSTARRED QUESTION NO:476
ANSWERED ON:20.07.2016
Cloud Computing Technology
Singh Shri Dushyant

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) whether the Government is promoting research and development in the Cloud Computing Technology in various educational institutes, startups and established companies via financial assistance, knowledge sharing;
- (b) if so, the details thereof;
- (c) whether the Government is also adopting cloud computing methods in function and promotion of PSUs which are operating in the IT sector;
- (d) if so, the details thereof and
- (e) the steps taken by the Government to tackle the security challenges associated with this technology?

Answer

(a) and (b): Yes, Sir. The Government is promoting Research & Development in Cloud Computing Technology as per the details below:-

- (i) Grant in-aid support to institutions i.e. IITs, IISc Bangalore, CDAC etc. in Cloud Computing
- (ii) CDAC has developed Meghdoot, a comprehensive free and open source Cloud suite useful for setting up a Cloud Computing environment, Sumegha, a packaged software kit for setting up cloud labs for academic institutes and research and Megh-Shikshak which is a cloud-based learning management system.
- (iii) Under the IMPRINT initiative of the Ministry of HRD, designed to promote research in the premier institutions, one exclusive domain has been created for research on Information and Communication technology including Cloud.
- (iv) Department of Science & Technology (DST) is also promoting Research and Development activities through grand-aid support to academicians, scientists, technologists and other practicing researchers in the areas of Cloud and Grid Computing.
- (v) National Institute of Electronics and Information Technology (NIELIT), a capacity building arm of Department of Electronics and Information technology (DeitY) is also providing training in the field of Internet of Things (IoT) and Cloud Computing.
- (c) and (d): Yes, Sir. NIC has setup the National Cloud for providing services to Government Ministries/Departments and other PSUs/organizations. Some of the PSUs/Organizations using NIC National Cloud for hosting of websites and other applications are listed as below:-

- i. Satluj Jal Vidyut Nigam Limited
- ii. Gas Authority of India Limited
- iii. Balmer Lawrie and Company Limited
- iv. Hindustan Shipyard Limited
- v. Minerals and Metals Trading Corporation Limited
- vi. National Thermal Power Corporation
- vii. Bharat Broadband Network Limited
- viii. Food Corporation of India
- ix. Delhi Metro Rail Corporation
- x. National Minorities Development & Finance Corporation
- xi. Engineering Projects India Limited
- xii. Garden Reach Shipbuilders Engineers Limited

(e): Government has established a cloud facility which is operated by NIC. It is a cloud deployment model which is owned by Government and used by Government departments. All the applications and data hosted in this cloud are adhering to the IT Act 2000 and following the security guidelines issued by Computer Emergency Response Team India (CERT-IN) to avoid any security breaches.
