GOVERNMENT OF INDIA
MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 4369
TO BE ANSWERED ON 21.03.2018

SHORTAGE OF SKILLED MANPOWER

4369.   SHRI NISHIKANT DUBEY:
          SHRI RAJESH PANDEY:

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

(a) whether there is considerable shortage of skilled manpower in the Information Technology (IT) sector;

(b) if so, the details thereof and the steps taken by the Government in this regard;

(c) whether the Government has made any assessment and planning for immediate requirement of manpower in the IT sector due to Digital India Programme and online transactions and advent of more software related programmes; and

(d) if so, the details thereof and the skill development training proposed to be given to the educated youth in the country?

ANSWER

MINISTER OF STATE FOR ELECTRONICS AND INFORMATION TECHNOLOGY
(SHRI K.J. ALPHONS)

(a) to (d):   As per NASSCOM, Indian Information Technology - Business Process Management (IT-BPM) Industry continued to be a net hirer with an addition of 1,70,000 new jobs with a total employee base of around 3.9 million in the Year 2016-17. However, speedy adoption of automation and emerging technologies are affecting some jobs and new jobs which are being created require newer skill-sets.

The Government of India and Indian IT-BPM Industry are increasingly looking at new skill-sets and subject matter experts to continue on the evolution growth path. New job roles in the areas such as Internet of Things, Artificial Intelligence, Cyber Security, Data Science, Mobile App development, etc are evolving, which is giving rise to a new breed of domain experts. It is also indicated that with changing paradigms of talent deployment, re-skilling of employees is becoming the key agenda for IT Industry.

Various initiatives of Government of India such as Digital India covering e-Government Services, Common Service Centres, BPO Promotion Schemes, Digital Payments, Electronic Manufacturing, and Digital Saksharta Abhiyaan; e-Commerce, GST Network, Make in India, Start-up India, e-Health, Smart Cities, and e-Agriculture Market Place/

Digital Mandis, etc are creating new job opportunities. These initiatives coupled with new and emerging technologies are creating IT and Electronics led new job opportunities in both traditional as well as new sectors of the economy such as Transport, Health, Power, Agriculture, and Tourism.

According to NASSCOM, it is estimated that the IT-BPM sector would continue to hire at a rate of 3% to 3.5% year-on-year by 2022. NASSCOM also indicates that many firms have already established dedicated programs to re-skill their existing employees.

Government of India has setup various Sector Skill Councils (SSC) including NASSCOM IT-ITeS SSC to address the requirement of present and future skills and job roles by covering developing job standards, training content, Faculty & student training, Assessments and certification, etc.

Ministry of Electronics and Information Technology (MeitY) has signed a Memorandum of Understanding (MoU) with NASSCOM, to collaborate and strengthen their cooperation in the field of skill development particularly with respect to the re-skilling and up-skilling imperative in areas of new and emerging technologies, with Government acting as an enabler/facilitator. A future skills platform for Business to Business (B2B) skilling (**http://futureskills.nasscom.in/**) has been launched by NASSCOM.

In addition, MeitY takes up several capacity building activities to ensure availability of trained human resources for the manufacturing & service sectors of Electronics and IT industry. Various schemes/activities pertaining to Human Resource Development for IT sector are as under:-

i. National Institute of Electronics & Information Technology (NIELIT), an Autonomous Scientific Society under MeitY, is engaged both in Formal & Non-Formal Education in the area of IECT through its own centres located at 40 locations and 700+ accredited centres spread across the country. NIELIT through its various courses have trained a cumulative 5.50 Lakh number of candidates out of which 3.49 Lakh candidates are certified during April, 2017 to January, 2018.

ii. Centre for Development of Advanced Computing (C-DAC), a R&D organization of the MeitY, has enrolled 3485 candidates out of which 2918 candidates have completed the training during April, 2017 to September, 2017.

iii. Visvesvaraya PhD Scheme for Electronics and IT which provides support for 3000 PhDs (1000 Full-Time & 2000 part-Time), to promote research, innovation and development of new products. So far, a total of 1153 PhD (970 full time + 183 part time) candidates have been enrolled at various institutes.

iv. Scheme of Financial Assistance for setting up of Electronics and ICT Academies, under which Seven Academies have been setup for faculty development to improve the employability of the graduates/diploma holders. So far, 13,220 participants have been trained under 347 Faculty Development Programs (FDPs).

v. Information Security Education and Awareness (ISEA) Project Phase-II is aimed at capacity building in Information Security, training of Government personnel and creation of mass Information Security awareness. So far, 28,069 candidates are under-going training/trained in various formal/non-formal programs at 52 institutions, 4,457 Government officials have been trained and 606 awareness workshops have been conducted covering 65,342 participants.

****