

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

UNSTARRED QUESTION NO:4046  
ANSWERED ON:09.04.2003  
RESEARCH UNDERTAKEN BY C-DOT  
UMMAREDDY VENKATESWARLU

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

- (a) whether C-DoT has been working on SDH optical systems, dense wave division multiplexing (DWDM) equipment and third generation mobile telephones;
- (b) if so, whether such research is already being done in many other laboratories in the private sector;
- (c) if so, the objective of C-DoT in engaging in research sectors and matters where other large institutions are also working towards solutions
- (d) the steps proposed to be taken by C-DoT to carefully select research subjects and avoid duplication and wasteful expenditure;
- (e) whether C-DoT will also focus on upgrading the existing telecom systems; and
- (f) if so, the details of any long term plan devised by C-DoT for product development?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF COMMUNICATIONS AND INFORMATION TECHNOLOGY (SHRIMATI SUI MAHAJAN)

(a) Yes, Sir.

(b) It is understood that such research to certain extent is also being done in some other laboratories.

(c) The objective in this case is to provide cost effective state-of-the-art solutions and also the most suitable ones for the indigenous markets with ability to provide progressive upgradation in terms of new features and services as it has control over the technology and the software of the designed systems. Earlier also, when C-DoT developed the digital switching technology, many other technologies were already available yet, inspite of fierce competition, C-DoT has its share of over 45% of the telephone lines in the country. A similar, focus and approach is being kept, while developing these technologies for deployment and development of skills for the future technology excellence as well.

(d) C-DoT has a defined mechanism for selecting the research subjects. This includes study and market analysis, discussion of needs with service providers, prioritisation on the above basis by its Board, the Steering Committee and the Governing Council consisting of high level representatives of the Government and of the operator.

(e) Yes, Sir.

(f) C-DoT for the long term has planned to develop some new systems and solutions by leveraging and value addition on the technologies already developed by it for current systems. Also, many of the new technologies which are being developed by C-DoT are based on open platform approach which make them much more modular, software intensive and future proof so that the same platforms can be used in various types of network solutions. This will help in making these platforms cost effective as well as fit for retrofitting future applications based on changing market requirement.