GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY DEPARTMENT OF SCIENCE AND TECHNOLOGY LOK SABHA UNSTARRED QUESTION NO.1839 TO BE ANSWERED ON 09/12/2015

SCIENTIFIC RESEARCH AND DEVELOPMENT

1839. SHRI C.N.JAYADEVAN: DR. SUBHASH BHAMRE: SHRI SANJAY HARIBHAU JADHAV: SHRI ELUMALAI V.: ADV. M. UDHAYAKUMAR: SHRI SULTAN AHMED: SHRI HARI MANJHI: SHRI R. PARTHIPAN: DR. A SAMPATH: SHRI RODMAL NAGAR: SHRI RODMAL NAGAR: SHRI MATI KOTHAPALLI GEETHA: SHRI R. DHRUVA NARAYANA: SHRI DALPAT SINGH PARASTE:

Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री

be pleased to state:

(a) whether the pace and standard of basic and applied research in the laboratories/ organisations/institutes is satisfactory and if so, the details thereof and if not, the reasons therefor;

(b) whether various academicians/ organistions including Indian Science Congreess have expressed their concern about dismal state of scientific research in the country and inadequate funds allocation therefor;

(c) if so, the details thereof and the steps taken by the Government to improve the situation and increase in the budgetary allocations for purposeful scientific research;

(d) whether the Governemnt has directed the Council of Scientific and Industrieal Research (CSIR) and other organisation involved in scientific research to generate their own funds and to start self financing projects, if so, the details thereof; and

(e) the response of these organistions thereto along with its likely impact on various government research schemes and programmes?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND MINISTER OF STATE IN THE MINISTRY OF EARTH SCIENCES (SHRI.Y. S. CHOWDARY)

विज्ञान और प्रौद्योगिकी मंत्रालय में राज्य मंत्री और पृथ्वी विज्ञान मंत्रालय में राज्य मंत्री

(श्री वाई. एस. चौधरी)

(a) Yes, Madam. The pace and standard of basic and applied research in the laboratories/

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organizations/institutes under the Ministry of Science and Technology are satisfactory.

In the context of basic research, scientists are publishing in leading international journals in ever increasing numbers. In certain areas like nano science and technology, materials science, chemical sciences, life sciences and biotechnology, many institutions under the Ministry of Science and Technology have achieved formidable national and international standing. The institutions under the Ministry are important partners in prestigious international projects namely, A Large Ion Collider Experiment (ALICE) at LHC, Geneva, Facility for Antiproton and Ion Research (FAIR) at Darmstadt, Germany, Thirty Metre Telescope in Hawaii and so on. The Indian Institute of Astrophysics (IIA), Bengaluru under the Department of Science and Technology (DST) led the construction of the Ultraviolet Imaging Telescope (UVIT) which formed an important payload of the ASTROSAT Mission launched recently by ISRO.

On the applied side, significant technological interventions have been provided by the institutions under the Ministry in several areas such as environment, health, drinking water, food, housing, energy, specialty chemicals and petrochemicals, etc. Patent filing by institutions is also registering growth. Laboratories under the Council of Scientific and Industrial Research (CSIR) have been able to achieve 13.33% commercialization of their patents in comparison to the global average of 3%.

(b) & (c): While the state of Research and Development (R&D) in the country has been steadily improving, there is a wide variation in the level of competencies and the supporting research infrastructure among the institutions in the country. Hence, one occasionally hears concerns about the state of scientific research in the country from some academicians/organizations. As far as the institutions under Ministry of Science and Technology are concerned, the state of both basic and applied research is satisfactory. The Government has increased the budgetary allocations for Departments/Agencies under the Ministry of Science and Technology as shown below:

	Plan Budget Allocated (BE figures in Rs. crores)		
Financial Year	Dept. of Science and Technology (DST)	Dept. of Biotechnology (DBT)	Council of Scientific and Industrial Research (CSIR)
2014-15	3125	1500	1980
2015-16	3401.5	1606.8	2241

(d) & (e): There is no such direction from the Government. However, in the Directors' Conference of CSIR Laboratories held at Dehradun in June 2015, it was resolved to attempt for self-financing of laboratories as the ultimate dream. This has been an ideal for the institutions under the Ministry of Science and Technology. In fact, institutions under the Ministry of Science and Technology which specialize in basic research have been securing extramural competitive project funding from government and non-government sources. Those institutions which have applied research portfolio carry out technology development activities by raising resources through technology transfer, patent licensing, contract R&D activities, consultancy and high-end knowledge-based services.
