

**GOVERNMENT OF INDIA  
MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
DEPARTMENT OF HIGHER EDUCATION**

**LOK SABHA  
UNSTARRED QUESTION NO. 4708  
TO BE ANSWERED ON 22.07.2019**

**Research and Development in Education**

4708. SHRIMATI MANEKA SANJAY GANDHI:

Will the Minister of HUMAN RESOURCE DEVELOPMENT be pleased to state:

- (a) whether India's expenditure on Research and Development (R&D) is less in comparison to that of other developing countries;
- (b) if so, the reasons therefor and the reaction of the Government thereto; and
- (c) whether there is a demand from many quarters to increase the percentage of GDP spending on R&D in education sector and if so, the details thereof?

**ANSWER  
MINISTER OF HUMAN RESOURCE DEVELOPMENT  
(SHRI RAMESH POKHRIYAL 'NISHANK')**

(a) to (c): As per latest R&D Statistics released by the National Science and Technology Management Information System (NSTMIS) of the Department of Science and Technology (DST), Research & Development (R&D) expenditure in India tripled during the period from 2004-05 to 2014-15. However, its size as a percentage of Gross Domestic Product (GDP) remained at 0.7 per cent as compared to 4.3% in Israel, 2 per cent in China and 1.2 per cent in Brazil. One of the reasons is less investment by the private sector on R & D, which accounts for 65% to 75% of the total R&D investment in most technologically advanced countries of the world as compared to only about 30 per cent in India.

Government of India has taken a number of initiatives to enhance investment in R&D as well as to promote and improve the overall research eco-system in the country. These include Uchhatar Avishkar Yojana (UAY), which promotes industry sponsored, outcome-oriented research with an outlay of Rs.475.00 crore. 25% of the funds under UAY are contributed by the Industry. Impacting Research Innovation and Technology (IMPRINT) focuses on socially relevant research in higher educational institutions with a budget provision of Rs.487 crore. Establishment of 9 research parks at a total cost of Rs.775 crore, 8 of them being in the Indian Institutes of Technology (IITs) and one in Indian Institute of Science (IISc). These research parks will propel innovation through incubation and joint research between academia and industry. Prime Minister's Research Fellows (PMRF) Scheme launched with an outlay of Rs.1650 crore incentivises the most meritorious students to pursue research in the frontier areas of science & technology by offering attractive rates of fellowship from Rs.70,000/- to Rs.80,000/- per month in addition to research grant of Rs.2.00 lakh per year for five years.

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