

'Biotechnology Career Advancement and Re-orientation Programme (BioCARE)' since its inception in 2011.

(d) Yes, Sir. The Department of Science and Technology (DST) has started a new program "Vigyan Jyoti" during 2019-20 for girl students of Class 9 to 12 in order to increase the number of women in STEM education. This will further improve the participation of women in scientific research and development.

Policy for becoming a global force in science

1748. SHRI RAJMANI PATEL: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether Council to Prime Minister has urged Government to find innovative ways to attract the best talents in teaching profession so as to bring improvement in the quality of education;

(b) whether the panel has also insisted that there is need to increase the investment in science and technology education in order to realise its ambition for becoming a global force in science;

(c) if so, the details thereof and whether Government has formulated any ad-hoc policy in this regard; and

(d) the details thereof?

THE MINISTER OF SCIENCE AND TECHNOLOGY (DR. HARSH VARDHAN):

(a) Yes Sir. The Prime Minister's Science, Technology and Innovation Advisory Council (PM-STIAC) deliberated upon and reviewed the initiatives of Ministry of Human Resource Development (MHRD) in the field of research and innovation and recommended the following:

- (i) A demarcation between research and teaching roles and ensuring the value of both for quality research output and high teaching standards. It will be equally critical to ensure that Ph.D. research guides are qualified and capable of guiding students.
- (ii) Academic institutions can be restructured in a format that promotes interdisciplinary research framework rather than in departmental silos. This

can get embedded into an eco-system of incubation and start-ups as 'Value-addition Centres' in these institutions.

- (iii) Promotion of young researchers on the lines of Friedrich Miescher Institutes in Germany can work a long way in creation of melting pot of ideas and promote inter-disciplinary research and innovation.

(b) Yes Sir, the panel has also insisted that there is need to increase the investment in science and technology education in order to realise its ambition for becoming a global force in science.

(c) and (d) Intervention in the areas such as Artificial Intelligence and National Research Foundation (NRF) by PM-STIAC has helped facilitate induction of quality human resources in basic and applied research areas by way of provisioning internationally competitive incentive packages of remuneration and benefits.

Support to strengthen the field of science and technology

1749. LT. GEN. (DR.) D.P. VATS (RETD.):

DR. L. HANUMANTHAIAH:

SHRI P. BHATTACHARYA:

DR. AMEE YAJNIK:

SHRI RAJMANI PATEL:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether Government is providing any financial/institutional support for both the invention as well as the innovation to strengthen the field of Science and Technology and encourage the new inventors/scientists in the country; and

(b) if so, the details thereof?

THE MINISTER OF SCIENCE AND TECHNOLOGY (DR. HARSH VARDHAN):

(a) and (b) Yes, Sir. Department of Science and Technology(DST), Government of India is providing support to establish Technology Business Incubators (TBIs) primarily in and around academic, technical and management institutions to tap innovations and technologies for venture creation by utilizing expertise and infrastructure already available with the host institution. TBIs operate with an objective of promoting new technology/knowledge/innovation based startups by providing cost effective value added services like mentoring, financial, technical, accounting and intellectual property related services. The broad S&T sectors covered by these initiatives are Clean Energy,