

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY**

**LOK SABHA
STARRED QUESTION NO. 485
TO BE ANSWERED ON 06.04.2022**

Mission Innovation

***485. SHRIMATI SANGEETA KUMARI SINGH DEO:
DR. JAYANTA KUMAR ROY:**

Will the Minister of SCIENCE AND TECHNOLOGY **विज्ञान और प्रौद्योगिकी मंत्री** be pleased to state:

- a) whether the Government proposes to promote Science and Technology with emphasis on emerging areas and their applications for the development and support to the weaker sections of the society and if so, the details thereof;
- b) whether India has played a crucial role in launching 'Mission Innovation' which is a global initiative and if so, the details thereof;
- c) the details of the funds allocated, released and utilized under 'Mission Innovation' during each of the last three years; and
- d) whether the Government has allocated funds for Research & Development (R&D) Projects under smart grids engaging various Indian and foreign institutes and industries and if so, the details thereof; and
- e) the other steps being taken by the Government in this regard?

**ANSWER
MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF
SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

**विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार)
(डॉ. जितेंद्र सिंह)**

(a), (b), (c), (d) & (e): A Statement is laid on the Table of the House.

STATEMENT IN RESPECT OF LOK SABHA STARRED QUESTION *485 TO BE ANSWERED ON 06.04.2022 REGARDING 'MISSION INNOVATION'

- (a) The Ministry of Science & Technology through Department of Biotechnology (DBT), Department of Science and Technology (DST), Science and Engineering Research Board (SERB) and Council of Scientific and Industrial Research (CSIR) is promoting Science and Technology with emphasis on emerging areas to make the technologies affordable and accessible to the weaker sections of the society through various Schemes and Programmes. Some of them are: clean energy, waste to energy, vaccine development and diagnostics, nanotechnology, vaccine research and few others.

Several DBT programmes support weaker section of the society: (i) 36 Biotech-KISAN Hubs have been established in collaboration with ICAR covering all 15 agro-climatic zones across the country. This includes 112 Aspirational Districts. Over 2 lakh farmers have got benefitted. Over 200 rural entrepreneurs have also been developed. (ii) Supported 66 projects in last 5 years and nearly 39,000 rural, SC/ST and women population including youth have been benefitted in agriculture and allied sectors. (iii) Under Water Sanitation and Hygiene (WASH) initiatives of DBT and BIRAC, the programmes have been supported to develop affordable clean off-grid toilets contributing to Swachh Bharat mission. These toilets work in remote areas to support weaker sections of our society providing hygienic sanitary conditions. (iv) Maternal and Child health initiatives is directed towards initiating on reducing wasting and stunting syndrome for children. The focus is to monitor and improve the nutritional profile of pre-pregnant women and post 1000 days of child birth in semi rural settings. (v) DBT alongwith its autonomous institutions and a PSU, BIRAC has contributed towards combating Covid-19 pandemic across the country including weaker sections of the Society. (vi) DBT-Institute of Life Sciences, Bhubaneswar along with CSIR has been implementing several interventions aimed at empowerment of socially and economically disadvantaged tribal and rural farming communities of Nabarangapur district (Aspirational and tribal dominated District of Odisha), and other regions of Odisha.

CSIR is focusing on: (i) CSIR Aroma and Floriculture Mission for catalyzing rural empowerment through cultivation, processing, value addition and marketing of aromatic/fragrant plants (with KVIC, TRIFED, APEDA, ICAR. Under this, >1000 farmers in Jammu and Kashmir got benefitted; (ii) demonstration and deployment of innovative, cost-effective and smart technologies for measuring and monitoring water service delivery for safe and sustainable water resource management at pilot location across the country (with Jal Jeevan Mission, Ministry of Jal Shakti); (iii) Improved Samba Mahsuri variety for Bacterial blight resistance with low glycemic index Rice, 7-10 days early maturation than existing variety which is being cultivated in about 9,00,000 hectares in India benefiting farmers and society; (iv) Promoting Seaweed farming for enhancing the income of coastal farmers in association with National Fisheries Development Board, Hyderabad to get the assured income jointly with private companies for capacity building and hands on training to the fishermen of coastal areas; and (vi) CSIR collaborating with Unnat Bharat Abhiyan to provide an enabling platform to work jointly for creating livelihood opportunities in rural areas especially in the wake of situation created by COVID-19 epidemic.

DST, SERB and DBT have specific schemes for Innovation Technology Development and Human Capacity Building including woman empowerment and Equity Opportunities for Excellence in Science.

(b) The Mission Innovation is a global initiative of 22 countries and the European Commission (on behalf of the European Union) catalyzing investment in research, development and demonstration to make clean energy affordable, attractive and accessible for all. Mission Innovation was launched during 21st Conference of the Parties (COP 21) in November 2015, in presence of Hon'ble Prime Minister, India along with world leaders. India has played pivotal role in Mission Innovation programs, by participating in various areas of Clean Energy Innovation Challenges through collaborative projects and also supporting start-ups at their early stage of innovations. Building on success of last five years joint efforts, India along with other Mission Innovation members has also agreed to continue its commitment for phase 2.0 for another 5 years by participating in Missions and Platforms for translating knowledge towards deployable solutions.

(c) Funds Allocated, released and utilized under Mission Innovation during each of the last three years-

Amount (Rs. in Crore)		
Year	Allocated	Released and Utilized
FY 2018-19	68.52	41.24
FY 2019-20	44.63	29.63
FY 2020-21	34.09	19.97
Total	147.24	90.84

(d) Government has allocated funds to R&D projects under Smart Grids engaging various Indian and Foreign institutes and industries. Department of Science & Technology is supporting R & D Projects on Smart Grids at various National Institutes, Universities, IITs in collaboration with partnering institutes from Canada, Norway, UK, Germany, USA, Australia, Italy. DST has allocated Rs.31.36 crores to support the projects on smart grids.

(e) The Government of India has made concerted efforts to accelerate start-up technologies, greater public engagement towards research, development and demonstration for affordable clean energy solutions by initiating collaborative platforms and missions.
