

**GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
LOK SABHA  
UNSTARRED QUESTION No. 3382  
TO BE ANSWERED ON 13/03/2020**

**ECO-SYSTEM OF INNOVATION**

**3382. SHRI T.R. BAALU:**

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

- (a) whether the Government has any plans to develop the eco-system of innovation, in which the gap between academia, industry and the Government is bridged;
- (b) if so, the details thereof;
- (c) whether the Government has any plan to link up R&D with socio-economic priorities of the country; and
- (d) if so, the details thereof.

**ANSWER**

**MINISTER OF HEALTH AND FAMILY WELFARE; MINISTER OF SCIENCE AND TECHNOLOGY; AND MINISTER OF EARTH SCIENCES  
(DR. HARSH VARDHAN)**

**स्वास्थ्य और परिवार कल्याण मंत्री, विज्ञान और प्रौद्योगिकी मंत्री और पृथ्वी विज्ञान मंत्री  
(डॉ. हर्ष वर्धन)**

(a) to (d): To develop an eco-system of innovation, in which the gap between academia, industry and the government is bridged, Department of Science & Technology (DST) already supports the following programmes:-

The National Initiative for Developing and Harnessing Innovations (NIDHI) is an umbrella programme conceived and developed by the Innovation and Entrepreneurship Division (National Science and Technology Entrepreneurship Development Board) of Department of Science & Technology, for nurturing ideas and innovations (knowledge-based and technology-driven) into successful startups. The programme works in line with the national priorities and goals and its focus is to build an innovation driven entrepreneurial ecosystem with an objective of national development through wealth and job creation. Under NIDHI, Technology Business Incubators are supported primarily in and around academic, technical and management institutions to tap innovations and technologies for venture creation.

**The National Mission on Inter-disciplinary Cyber Physical Systems (NM-ICPS) has been launched in December, 2018 which involves setting up of 25 Technology Innovation Hubs (TIH). These Hubs will connect to Academics, Industry, Central Ministries and State Governments in developing solutions.**

**Under Nano Mission, a Nano Technology Business Incubator has been supported for startups in F.Y. 2019-20 at an autonomous Institution of DST i.e. Centre for Nano Science, Bangalore.**

**The Technology Development Programme (TDP) is designed to convert proof-of-concept for technologies/ techniques/ processes/products into advance prototypes for validation and demonstration in actual field settings. The various sub schemes of TDP are Science and Heritage Research Initiative (SHRI) to strengthen Heritage Science in sectors such as textiles, metal works, crafts, ceramics etc. and diffuse this to artisan clusters, Advanced Manufacturing Technology (AMT) Programme, Biomedical Device and Technology Development (BDTD), Device Development Programme (DDP), Technology Enabling Centres (TEC). Applicants are encouraged to involve industry from the inception of the project wherever possible.**

**Department of Scientific and Industrial Research (DSIR) through the “Common Research and Technology Development Hubs”, established in academic and R&D institution has been contributing towards building a conducive eco-system of innovation that enables Micro, Small and Medium Enterprises (MSMEs) to undertake R&D and technology development by utilizing R&D facilities and technical knowhow, patents etc. available in the academic institution. Furthermore, a UK-CATAPULT like scheme is conceptualised by DSIR to strengthen the triple helix structure, comprising of Government, Academia and Industry to give a boost to the eco-system of innovation.**

**The Technology Mission Division of DST has thematic programmes on energy and water which are linked to the socio-economic priorities of the country. The programmes include supporting applied research, technology development through Project Grants, Challenges, Prizes Knowledge Platforms etc and converting them into solutions with appropriate partnership of added value to academia, industry and users.**

**Technology Development Programme (TDP) has launched Waste Management Technologies (WMT) Programme with the objective to contribute towards Swachh Bharat Mission with technological solutions for solid waste management. Areas under this include hospital waste, plastic waste, industrial waste, agro-waste and e-waste, etc.**

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