

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO.641
TO BE ANSWERED ON 6/2/2019**

NATIONAL MISSION ON INTERDISCIPLINARY CYBER PHYSICAL SYSTEM

641. SHRI P. NAGARAJAN:

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

- (a) whether the Union Government has decided to set up 15 Technology Innovation Hubs, 6 Application Innovation Hubs and 4 Technology Translation Research Parks under the National Mission on Interdisciplinary Cyber-Physical Systems;
- (b) if so, the details thereof;
- (c) the main functions and methods of functions of the Mission; and
- (d) the advantages and usefulness of the proposed Mission?

ANSWER

**MINISTER OF SCIENCE AND TECHNOLOGY, MINISTER OF EARTH SCIENCES AND MINISTER OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(DR. HARSH VARDHAN)**

विज्ञान और प्रौद्योगिकी मंत्री, पृथ्वी विज्ञान मंत्री और पर्यावरण, वन एवं जलवायु परिवर्तन मंत्री

(डा. हर्ष वर्धन)

(a) Yes, Madam.

(b) Technology Innovation Hubs (TIH) are to focus on generation of new knowledge through basic and applied research in the areas of Artificial Intelligence, Machine Learning, Deep Learning, Internet of Things, Big Data Analytics, Data Science, Advanced Communications, Robotics and Quantum Technologies.

Application Innovation Hubs (AIH) are to carryout targeted Applications development and work with Line Ministries/Departments to develop product and implementations.

Technology Translation Research Parks (TTRP) are to focus on translational research and delivery of finished products, technology ready for deployment and commercialization.

(c) The main functions and methods of functions of the Mission:

The Mission will have four main functions i.e., 1. Technology Development, 2. Human Resource & Skill Development, 3. Innovation, Entrepreneurship & Start-Up development and 4. International Collaborations.

These functions are envisaged to be carried out by an independent Mission Governing Board (MGB) at the apex level with full delegated powers, assisted by Inter-Ministerial Coordination Committee (IMCC) and a Scientific Advisory Committee (SAC). In addition, Subject Expert Committees, Sectoral Committees, Cluster Committees and International Advisory Committees are also envisaged to look into the specific requirements of Mission implementation. Each of these Committees comprise of subject experts, academicians and industry partners guiding the implementation of the Mission.

(d) National Mission on Inter-disciplinary Cyber Systems (NM-ICPS) is to be implemented in the academic, R&D and other public institutes taking into account the Geographic spread of the country so as to benefit all stakeholders across the country.

NM-ICPS is a Pan India Mission and covers entire gamut of organisations in India that includes Central Ministries, State Govts, Industry and Academia as a middle layer connecting Academia, Industry and Govt., galvanizing technology development, IP Licensing, Start-ups and Commercialization with a view to prepare the country in adoption of next generation technologies, generate required skilled Human Resources and open new job market resulting in economic and social benefits through commercialization and efficiency in service delivery.
