GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION NO. 1982
ANSWERED ON 11/02/2026

NATIONAL MISSION ON INTERDISCIPLINARY CYBER PHYSICAL SYSTEMS (NM-ICPS)

1982. SHRI B K PARTHASARATHI:
SHRI KESINENI SIVANATH:

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

(a) the details of the research focus areas, technology development activities and innovation programmes undertaken by the Technology Innovation Hub (TIH) in Andhra Pradesh under the National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS);

(b) the number of startups, researchers and industry partners supported through the Hub, year-wise;

(c) the details of the amount of financial assistance sanctioned, released and utilized for the TIH in Andhra Pradesh since its inception, year-wise;

(d) whether the Government has any plans to expand the activities of the TIH in Andhra Pradesh to new domains under emerging cyber-physical technology areas and if so, the details of the proposed initiatives; and

(e) the measures taken by the Government to strengthen collaboration between the TIH in Andhra Pradesh, academia, industry, startups and international research institutions?

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

(a) Under the National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS), one Technology Innovation Hub (TIH), namely, Navavishkar I-Hub Foundation has been established at IIT Tirupati in Andhra Pradesh.

The TIH at IIT Tirupati focuses on the technology vertical "Positioning and Precision Technologies", with research activities in the area of precision positioning and navigation including Navigation with Indian Constellation (NavIC)-based applications, geospatial intelligence, remote sensing and Geographic Information System (GIS) analytics, digital twin frameworks and integration of cyber-physical systems. The TIH has established Positioning, Navigation and Timing (PNT) labs and geospatial intelligence platforms for development of indigenous Global Navigation Satellite System (GNSS)/PNT solutions, geospatial analytics, digital mapping tools and digital twin models for urban, environmental and disaster risk applications. In addition, the TIH has undertaken an innovation project entitled "Operation Dronagiri" to facilitate structured startup challenges, hackathons, and pilot deployments in priority sectors such as precision agriculture, infrastructure and asset monitoring, logistics and mobility, and livelihood and skilling support through location-based services.

(b) The year-wise details of the number of startups, researchers and industry partners supported through the Hub are as follows:

Financial Year	No. of startups supported	No. of researchers supported	No. of industry partners supported
2022 - 23	0	10	4
2023 - 24	0	20	5
2024 - 25	10	13	7
2025 - 26	24	46	15
Total	34	89	31

(c) The year-wise details of financial assistance sanctioned, released, and utilized for the TIH since its inception are as follows:

Financial Year	Amount Sanctioned (in Crore)	Amount Released (in Crore)	Amount Utilized (in Crores)
2020 - 21	7.25	7.25	7.25
2021 - 22	0	0	0
2022 - 23	0.5	0.5	0.5
2023 - 24	3	3	1.77
2024 - 25	29	29	29
2025 - 26	13.13	13.13	3
Total	52.88	52.88	41.52

(d) Under NM-ICPS, 25 TIHs have been established in premier academic institutions across the country. Each of these TIHs work on focussed themes in the domain of cyber-physical systems. The TIH at IIT Tirupati in Andhra Pradesh focuses on the technology vertical "Positioning and Precision Technologies". In this broad area, the TIH is mandated to expand its activities through joint research, technology development, innovation, and translational initiatives with partner institutions and through inter-TIH collaborations.

(e) Under NM-ICPS mandate, there are ongoing efforts to strengthen collaboration among the academia, industry partners, startups, and international research institutions in all the TIHs including the one in Andhra Pradesh. Efforts are also underway to develop inter-TIH collaboration and joint research under the Mission through Technology Translational Research Parks (TTRPs), for technology development, industry engagement, and the translation of innovations into scalable solutions for societal benefit.

*****