

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

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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.

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

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

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.

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.

This information was given by Union Minister of State (Independent Charge) for Science & Technology and Earth Sciences, and Minister of State in the Prime Minister’s Office, Personnel, Public Grievances and Pensions, Atomic Energy and Space, Dr. Jitendra Singh, in a written reply in the Lok Sabha on Wednesday.

AK/SK

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