

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF SCIENCE & TECHNOLOGY
LOK SABHA**

**UNSTARRED QUESTION No.2822
TO BE ANSWERED ON 15/12/2021**

TECHNOLOGY INNOVATION HUBS

2822. COL. RAJYAVARDHAN RATHORE:

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

- (a) the progress towards the mandate given to Technology Innovation Hubs (TIHs) under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS);**
- (b) the details of funds allocated to each of the hubs, year-wise since the establishment of NM-ICPS;**
- (c) the number of Start-ups which have been incubated and their status at present;**
- (d) the details of the manner in which individual technologies of such hubs are being aggregated to resolve the existing security requirements/gaps; and**
- (e) the criteria for choosing 25 TIHs?**

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) The progress made towards the mandate given to Technology Innovation Hubs (TIHs) under National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) are in the broad areas of Technology Development, Entrepreneurship Development, Human Resource Development and International Collaboration. The progress and achievements made by the 25 TIHs is as given below:

a.	Mission Parameters	Mission Targets	Achieved Targets
1	Technology Development	6824	496
2	Entrepreneurship Development	256182	1073
3	Human Resource Development	30694	2024
4	International Collaboration	101	32

(b) The details of Fund allocation to each of the hubs, year wise since establishment of NM-ICPS is given in Annexure I.

(c) Presently, 54 number of start-ups are identified and incubated.

(d) & (e) The existing security requirements/gaps are met through a Technology Innovation Hub (TIH) on Cyber Security established at Indian Institute of Technology (IIT), Kanpur. The Hub at IIT, Kanpur is the aggregating point and they in touch with other TIHs are to develop the technologies for resolving the existing security requirements. Criteria for choosing 25 TIHs are:

- 1. National Institute Ranking Framework (NIRF) and the rank obtained by the Host Institute.**
- 2. Faculty Expertise in given Technology Vertical.**
- 3. Space and Infrastructure availability to be given to TIH.**
- 4. No. of Publications, patents etc. in CPS technologies.**

Annexure I

S No	Name of Host Institute	Budget allocation (in Rs Crore)					Budget released (in Rs. Crores)			
		Year 1	Year 2	Year 3	Year 4	Year 5	Total	1 st Release	2 nd Release	Total
1	AI4ICPS I-Hub Foundation, IIT Kharagpur	22.25	38.00	45.00	36.00	28.75	170.00	7.25	15.00	22.25
2	Tih Foundation For lot And Ioe, IIT Bombay	22.25	57.00	68.00	19.00	3.75	170.00	7.25	15.00	22.25
3	I-Hub Foundation, IIIT Hyderabad	20.25	23.00	30.00	19.00	17.75	110.00	7.25	13.00	20.25
4	I-Hub For Robotics & Autonomous Systems Innovation Foundation, IISc Bangalore	22.25	46.00	56.00	31.00	14.75	170.00	7.25	15.00	22.25
5	I-Hub NTIHAC Foundation, IIT Kanpur	22.25	40.00	49.00	31.00	27.75	170.00	7.25	15.00	22.25
6	DRISTI Foundation, IIT Jodhpur	19.25	27.00	36.00	18.00	14.75	115.00	7.25	12.00	19.25
7	Divyasampark I-Hub Device Material & Technology, IIT Roorkee	20.25	35.00	40.00	22.00	17.75	135.00	7.25	13.00	20.25
8	Vishlesan I-Hub Foundation, IIT Patna	19.25	33.00	38.00	13.00	6.75	110.00	7.25	12.00	19.25
9	Pravartak Technologies Foundation, IIT Madras	22.25	45.00	50.00	34.75	18.00	170.00	7.25	15.00	22.25
10	I-Hub on Autonomous Navigation Foundation (TiHAN), IIT Hyderabad	20.25	36.00	44.00	19.00	15.75	135.00	7.25	13.00	20.25
11	I-DAPT-Hub Foundation, IIT BHU	19.25	30.00	46.00	10.00	4.75	110.00	7.25	12.00	19.25
12	Technology Innovation & Development Foundation, IIT Guwahati	20.25	41.00	51.00	15.00	7.75	135.00	7.25	13.00	20.25
13	Mandi Ihub And HCI Foundation, IIT Mandi	18.25	23.00	30.00	22.00	16.75	110.00	7.25	11.00	18.25
14	I-Hub For Cobotics Foundation, IIT Delhi	22.25	44.00	51.00	29.00	23.75	170.00	7.25	15.00	22.25
15	Technology & Innovation Foundation, IIT Ropar	17.95	30.00	34.00	19.00	9.05	110.00	6.95	11.00	17.95

16	Technology Innovation In Exploration And Mining Foundation, IIT (ISM) Dhanbad	18.00	35.00	43.00	9.00	5.00	110.00	7.00	11.00	18.00
17	Technology Ihub Foundation, IIT Palakkad	7.25	27.50	29.50	20.25	15.50	100.00	7.25	0.00	7.25
18	Comet Foundation, IIIT Bangalore	7.25	35.00	50.00	38.00	19.75	150.00	7.25	0.00	7.25
19	BITS-Bio Cytih Foundation, BITS Pilani	7.25	30.00	40.00	30.00	17.75	125.00	7.25	0.00	7.25
20	IDEAS – Institute of Data Engineering, Analytics & Science Foundation, ISI Kolkata	7.25	42.50	30.75	11.50	8.00	100.00	7.25	0.00	7.25
21	Drishti CPS Foundation, IIT Indore	7.25	43.00	22.25	14.75	12.75	100.00	7.25	0.00	7.25
22	Ihub Anubhuti-IIITD Foundation, IIIT Delhi	7.25	34.50	28.15	18.30	11.80	100.00	7.25	0.00	7.25
23	I-Hub Quantum Technology Foundation, IISER Pune	7.75	92.00	42.85	13.70	13.70	170.00	7.75	0.00	7.75
24	Navavishkar I-Hub Foundation, IIT Tirupati	7.25	42.50	30.75	11.50	8.00	100.00	7.25	0.00	7.25
25	Innovation & Technology Foundation, IIT Bhilai	7.25	19.20	10.85	10.70	7.00	55.00	7.25	0.00	7.25
Total		392.2	949.2	996.1	515.5	347.1	3200	181.20	211.00	392.20
