## IITI DRISHTI CPS Foundation 4th Meeting of Hub Governing Body (HGB)

The 4th of the Hub Governing Body (HGB) of IITI DRISHTI CPS Foundation was held on March 29, 2023 (Wednesday) at 10:30-11:30 am; at Abhinandan Bhavan, IIT Indore, and virtually through Zoom meeting. The following members were present during the meeting:

1.	Prof. S. Joshi, Director (Officiating), IIT Indore	mig the meeting:
2	Prof. Bhupesh Kumar Lad, Professor, IIT Indore	Chairman, Board of Directors, and Chairman, HGB
3		Project Director and Member Secretary
	Dr. Maitrayee Nanda, Ex-Secretary AR & DB, DRDO, Ministry of Defence, Government of India	Member, Hub Governing Body
4	Dr. Ekta Kapoor, Head of Scientific D:	
5	Mr. Amit Agarwal, Managing Director, Cyber Infrastructure (P) I to Indonesia	Member, Hub Governing Body
	Infrastructure (P) Ltd, Indore, Cyber	Member, Hub Governing Body
6	Prof. Arnab Bhattacharya, Professor, IIT Kanpur	- Fining Body
7	Prof. A.K. Darpe, Professor, IIT Kanpur  Mr. Adda W.	Member, Hub Governing Body
3	Mr. Aditya Vyas	Member, Hub Governing Body
	Talifa vyas	
		Foundation DRISHTI CPS

Leave of absence was granted to the following Hub Governing Body (HGB) members and

- 1. Dr. Anand Iyamperumal Palani, Dean R&D, IIT Indore and Member, Hub Governing Body 2. Dr. Manoj Kumar Member, Hub Governing Body
- 3. Prof. U.S. Dixit, IIT Guwahati -Member, Hub Governing Body
- 4. Prof. Asim Tewari Professor, IIT Bombay Member, Hub Governing Body

## ITEM No. 1 Opening Remark by the Chairman, HGB

Prof. S. Joshi welcomed all members and special invitees to the 4th meeting of the Hub

#### ITEM No. 2

# Research Project Proposals received by the hub and their review and grading as per the

Mr. Aditya SG Vyas, CEO continued the meeting by briefing about the projects onboarded under various schemes of IITI DRISHTI CPS Foundation and the startups supported by the hub. The details of the projects and the startups are as follows: -

1	Development of a Cyber Physical a	Team
2	Development of a Cyber-Physical System for Road and Infrastructure Monitoring and Maintenance Simuliware	Vimal Bhatia, Professor,
		Dept. of Electrical Engineering, IIT Indore
		Bhupesh Kumar Lad, Professor, IIT Indore

3	Portable diagnostic system: A digital solution for dia	
	retinopathy (DR) in remote and rural areas	betic Sayantan Ghosh, Ph.D. Scholar,
4	Wover Orthogonal Moacures - 1 6	III nyderabad
	Machine Learning	and Dhirubhai Ambani Institute of Information
		Communication To de la Information
5	Design and Prototype of D	Gandhinagar (DAII)
	Design and Prototype of Deep Residual Learning based Cha Estimation of 5G and beyond 5G patronal	nnel Animosh Ch
6	Estimation of 5G and beyond 5G networks	nnel Animesh Sharma, PG scholar,
	redefilling User Experience of Country Cl	IIII Delhi
7	Impaired through Generative Design & and other strategies  Design and Development of an artist.	ally Nirdesh Joshi, PG scholar,
7		
	to perform small-scale farm operations	bot Thushara P J, PG scholar,
		Manipal Institute of Tochnological
8	Development of Al-empowered vision-based Driver Supp	. The state of Technology
	System for Autonomous Vehicles	ort Oshin Rawlley, Ph.D. scholar,
9		
	Design and development of Digital Twins with intellige	ent laidean Circles
10		
10	KAWACH: An IoT & Al-Based Digital Bodyguard for The Farme	III Bombay
11		ers Malayaj Kumar Anshu, UG
11	A web-based multiplayer game to teach concepts of MRP a	Kalinga Institute of Industrial Technology
	JIT (Just in Time) to the students	nd Ishika Budhiraja, Jainil Shah,
	- Tradelity	Bhupendra Singh Shrayan Bay 110
12	A Web-based game to will	Indian Institute of Tasker I
	A Web-based game to mitigate the bullwhip effect ar	Indian Institute of Technology Indore
	understand the concept of Supply Chain Management	
		i usifar Juneja, UG
13	A	Shiv Nadar Institute of Eminence, deemed to be
13	A cyber-physical system for low-energy HVAC solutions base on natural thermal cycles and adaptive via the cycles and cycles via the cycles and adaptive via the cycles and cycles via the cycles via	
	on natural thermal cycles and adaptive thermal comfort for smart cities	
		or IIT Indore
14	Sniper Robotic Arm- EKLAVYA	
	- NOTA IA	Khushhal Mittal, Sharvil Joshi, UG
		Acropolis Instituto of T
15	Response Learning A	Acropolis Institute of Technology and Research
	Response Learning App - Natural Language Processing and Virtual Reality-based Technologies in Education	
	Virtual Reality-based Technologies in Educational Applications	Saurabh Saindhane, UG
16	Devel	Indian Institute of Information Technology
10	Development of in-situ V-A-T Data Monitoring for the WAAM	
17		
17	Smartphone-Based Autonomous Driving Module	in indore
	Wind Striving Module	Kshitij M Bhat, Bhayya Dalal
		Raghuvamsi Bokka, Yeeshukant Singh, K Vishnu Vardhan, Jitendra Kuman Si
		Vardhan, litendra Kumar Cl
18	Space Weather Modelling and Ari	Vardhan, Jitendra Kumar Choudhary, UG IIT Indore
	Space Weather Modelling and Visualisation Framework	Sarisha Das, UG
19		IIT Indore
2000	Developing a mobile application for rock mass characterization and detecting rock slope failures	
20	and detecting rock slope failures	Golla Amith, Pavan Gangarapu, UG
	Real-time quality control tool for fresh et al.	iii iiidore
		Parth Dwivedi, UG
.1	PARVAT' (prevention of accidents in hill	IIT Indore
	automated technology)	Himanshu Khati, Benjamin Basumatary, UG,
2	A digital twin based real-time traffic regulation system for risk	Indian Institute of Tochast
	management and failure	Indian Institute of Technology Indore Ayush, UG
	management and failure prevention in bridges	
		Indian Institute of Technology Indore
	Remote Sensing Emission Measurement Device for On-Road	
1	/ehicles // Device for On-Road	Devendra Deshmukh, Professor,
4   5	WASTI-DT: A Digital Twin for any in	Dept. of Mechanical Engineering, IIT Indore
.   3	Bital I Will IDI Monitoring C	
0	WASTI-DT: A Digital Twin for monitoring Space Weather Effects on orbiting satellites.	Bhargav Vaidya, Professor,

25	detection in Basmati rice	
26	Remote multimodal point-of-care health ti	Dept. of ME, III Indore
27	consultancy system	Arnav Bhavsar, Associate Professor, IIT Mandi
	Developinent () a low-cost Digit-11	Or Kishoro Bhooke
		Accociate Des
28		
	Assessment of road condition and repair cost estimation using a cyber-physical system	Technology (Indian School of Mines) Dhanbac g Guru Prakash Assistant Professor,
29	1 your system	Designation of the second of t
23	Hyperspectral Image analysis and Machine learning for gern detection and precision agricultural	
30		
	Designing a remote-based Heart estimation system for face mask videos	Puneet Gupta
31		
	Simulation, Modelling, and Visualization of Reconfigurable	Saptarshi Ghosh
32		
	Ensuring Data Security in IoT Environments through Machine Learning Techniques	Abhishek Srivastava, Dept. of CS,
33	Car Collision Avoides	IIT Indore
	Car Collision Avoidance and Recording System (CCARS)- IoT with Optical and Radio Frequency Inputs	Siddharth Sawasashi Malu B
34		
	Development of 3D holography-based digital twin technology for an induction motor for pradiction	Anand Kumar S
35		IIT Jammu
	Microscopic Image-Based Vegetable/Fruit Quality Assessment	Shovan Barma
		Indian Institute of Information Technology
36	Kayashtya Digital Technical Innovations Private Limited	Guwahati
	Private Limited	Anjali Srivastava Founder & CEO MBA (finance)
37	MLworkX Private Limited	Mohit Kumar Co-founder & CTO MTech. in GIS
		A PIL ASLIANA (MD &CFO)
38	Cropper Technologies Private Limited	Sourabh Semwal (CTO)
	S sales chilited	Priyan Shah- Founder & CFO
		Rishi Dixit- EVM; MBA in Mktg
39	Arficus Private Limited	Dhruv Shah - CTO
10		Sandeep Sinha Founder & CEO
40	GV Black DenTech Private Limited	Anurag Jain Co-founder & COO
41		Vinamra Jain Co-founder
41	Techwarium India Private Limited	Sandeep P. Jogi Co-founder, Al Research Analyst
		Hornit Patil, Co-Tounder, CFO Techwarium In II
		(earlier research staff at IITI)
		nemant Marmat Co-foundation
		Acropolis Institute of Technology and Research,
42		
	A2P Energy Solutions Private Limited	Bhupesh K Lad, Professor, IIT Indore, Co-founder Sukhmeet Singh CEO & Founder
13		Priyadeep Kaur, Co-found
	Chenavision Enterprise Private Limited	Oushyant Bhati- Founder & CEO
14	Exergy Innovations Private Limited	/ikas Pandey- CTO
	o, microticing Frivate Limited	Prabhjot Singh, Co-founder & CEO
5	Malhari Projects Private Limited	Vanak Singh, Co-founder & CFO
	Note: Inited	Aihir Dixit, Founder
		aibhav Patel, Co-founder

The Hub Governing Body (HGB) committee member took the record of the same and suggested the following: -

- 1. The committee advised to support the incubated startups in securing their next round of funding, specifically for the purpose of business development.
- 2. It was suggested to emphasize a primary focus on translational research projects that have the potential to expedite the commercialization of products or technologies and work with a cohesive plan of action for all the projects and startups instead of focusing on them separately.

### ITEM No.3

The meeting concluded with a vote of thanks to the Chair and HGB members.

Project Director and Member Secretary

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Chairman