IITM PRAVARTAK
CATALYSING INNOVATION

MINUTES OF THE HUB GOVERNING BODY MEETING HELD ON JANUARY 25, 2023

Members Present:

1. Dr. V. Kamakoti, Chairman, Director - IIT Madras
2. Dr. Manu Santhanam, Member, Dean - ICSR, IIT Madras
3. Dr. Ravindra Gettu, Member - Academic Representative, Dept. of Civil Engineering, IIT Madras
4. Dr. Bhaskar Ramamurthi, Member - Academic Representative, Dept. of Electrical Engineering, IIT Madras
5. Dr. H. S. N. Murthy, Member - Academic Representative, Dept. of Aerospace Engineering, IIT Madras
6. Dr. David Koilpillai, Member - Academic Representative, Dept. of Electrical Engineering, IIT Madras
7. Shri. Bhaskar Bhat, Member - Industry Representative
8. Shri. Kumar Sivarajan, Member - Industry Representative
9. Dr. G. Venkatesh, Member - Industry Representative
10. Dr. Devendra Jalihal, Project Director - TIH
11. Shri. JBV Reddy, (Scientist - F / Director, DST) - Invitee
12. Shri. Manoj Kumar, Director, IFD, DST - Invitee
13. Dr. M. J. Shankar Raman, CEO - Invitee
14. Mr. G. Veeraraghavan - GM Operations - Invitee

The Chairman, Dr. V. Kamakoti – Director, IIT Madras, called the meeting to order.

The Chairman warmly welcomed members who joined the HGB meeting and made a quick round introduction of all members present.

TIH Progress-presentation by the CEO and Project Director:

The CEO and the Project director made a detailed presentation covering the following:

1. Technology Development
2. Human Resources Development
3. Skill development programs
4. Start-ups
5. International Collaborations
6. Future plan

Activities covered in the presentation included:

1. Targets Accomplished
2. Financial Status.
3. Status of the projects funded under SSS, DIAL and PRAYAS schemes.
4. Status of DST - NSF projects funded.
5. Skill Development Programmes.
6. CSR Activities.
7. Other Projects in Pipeline

Points Discussed:

1. The CEO presented the targets achieved and the following scorecard:

Technology Development		
	Targets Set for 3 Years	Targets achieved till Dec'22
No of Technologies (IP, Licensing, Patents etc)	36	4
Technology Products	18	43
Publications, IPR and other Intellectual activities	150	39
Increase in CPS Research Base	100	60
Human Resource Development		
Graduate Fellowships	140	137
Post Graduate Fellowships	42	41
Doctoral Fellowships	25	4
Faculty Fellowships	6	8
Chair Professors	6	6
Skill Development	560	3636
Postdoctoral Fellowships	10	1
Entrepreneurship Development		
Technology Business Incubator (TBI)	1	1
Start-ups & Spin-off companies	24	15
GCC - Grand Challenges & Competitions	3	2
Promotion and Acceleration of Young and Aspiring technology entrepreneurs (PRAYAS)	1	15
CPS-Entrepreneur In Residence (EIR)	13	3
Dedicated Innovation Accelerator (DIAL)	1	7
CPS-Seed Support System (CPS-SSS)	1	15
Job Creation	5500	2079
International Collaboration		
International Collaboration	6	8

2. The financial status of the DST grants and the funds received from different sources, including CSR grants, was presented:

DST Grants	Total Sanctioned for 3 years	Total Received for 3 Years	Expenditure	Balance as of Date	Request for the next grant
	(In Crores)	(In Crores)	(In Crores)	(In Crores)	(In Crores)
Recurring	73.25	23.25	21.11	2.14	50.00
Non-Recurring	44.00	18.00	16.00	2.00	26.00
Total	117.25	41.25	37.11	4.14	76.00

Income from other sources:

Financial Year	Amount (In Crores)
2020-21	0.69
2021-22	9.22
2022-23 (Till Dec)	4.97

3. Status of the following projects funded under the PRAYAS, DIAL and SSS scheme was presented:
   a. Provide cost-effective end-to-end solutions for small satellite missions from ideation to orbit for the Indian market.
   b. Night-time image sensing for increased human perception and Advanced Driver - Assistance Systems.

c. Development of an IIoT-enabled actively damped boring bar to mitigate chatter in the machining of aerospace alloys.
d. Industrial Internet of Things (IIoT) enabled, thermally induced drift compensation module for milling machine tool.
e. Smart water network management.
f. Joint Design of Optics and AI for 3D Endoscopic Imaging.
g. Distributed Acoustic Sensing based on Coherent Optical Time Domain Reflectometry.
h. Affordable Automatic Cover-slipper for histopathology slides.
i. ARTSENS Age: Technology for early vascular ageing assessment.
j. Incubated Companies under SSS Scheme
   - Vaan Megam Networks Private Limited
   - Vyoma Systems Private Limited
   - TuTr Hyperloop Private Limited
   - Digitosec Private Limited
   - MEISTER-GEN Technologies Private Limited
   - Jandkops Operations Private Limited
   - Shakra Innovations Private Limited
   - Music Temple Private Limited

4. Status of the following projects funded under the NSF scheme was presented:
   a. Enhancing Autonomous and Assisted Driving using Thermal-RGB Fusion
   b. Single-shot and compact 3D endoscopy using dual pixel sensor.
   c. Synthesizing Adversarial Timeseries for Robust Networked Control Systems
   d. On-demand QoT-aware optical phase conjugators (OPCs) for WDM networks - Physical Layer Implementations

5. Details of the following skill development programmes and GCC were presented:
   a. Sony Pravartak Finishing School Programme
   b. Out Of the Box Thinking Through Mathematics
   c. Corporate Training for Fresher qualification
   d. GCC: SAMVEDAN 2022 – Yuru Musical Instrument Hackathon

6. The status of the following CSR projects was presented:
   a. RASA - Regenerative Agriculture Stack Architecture
   b. Pravartak Asha Rural Technology Centre
   c. Pravartak Kalvi Shakthi Rural Interaction Centres

7. The CEO discussed the following projects in the pipeline:
   a. Ministry of External Affairs
   b. G20 Project
   c. SHRI Projects
   d. Department of Telecommunications
   e. India secure OS
   f. SHAKTI Processor – Productization

Comments and Suggestions by HGB members:
1. Hub has to give special attention to increase patents and publications.
2. Dashboards need to get ready for proper monitoring of our targets.

Conclusion:
The meeting ended with a vote of thanks from the Chairman to all the members.

Dr. V. Kamakoti
Chairman – Hub Governing Body