**MINUTES OF THE 7th HUB GOVERNING BODY MEETING HELD ON**

**24th March 2023**

The following members were present during the 7th HUB Governing Body (HGB) meeting of IHUB ANUBHUTI-IIITD Foundation (IHUB-ANUBHUTI) held in Hybrid mode (ZOOM and Senate Room, 7th Floor, R&D building, IIITD) on 24th March 2023, at 10:00 A.M.

1. Dr. Ranjan Bose Chairman
2. Dr. Ekta Kapoor Member
3. Dr. Manish Gupta Member
4. Dr. Pushpendra Singh Member & Project Director, IHUB-ANUBHUTI
5. Mr. Saurabh Kumar Chaubey Member & CEO, IHUB-ANUBHUTI

**Invitees**

1. Mr. Anupam Saronwala Advisor, IHUB-ANUBHUTI
2. Mr. Abhishek Bhattacharya Manager, IHUB-ANUBHUTI
3. Mr. Pankaj Jain Jr. Manager, IHUB-ANUBHUTI

**Leave of Absence**

The following members could not attend the meeting due to their prior commitments and were granted leave of absence:

1. Dr. Udai Desai Member
2. Dr. Venkat Padmanabhan Member
3. Dr. Narendra Ahuja Member
4. Dr. Abhay Karandikar Member
5. Mr. Ajai Chowdhry Member
6. Ms. Debajani Ghosh Member

Dr. Ranjan Bose welcomed all present to the 7th HGB meeting.

**The following points were addressed during the meeting:**

1. Mr. Saurabh Kumar Chaubey updated HGB members about the action items of the previous HGB meeting and the Status of the Currently running items.
2. The updates given to HGB members regarding the action items of the previous HGB meeting were:
	1. Good performing projects of IHUB-ANUBHUTI
	2. Clarification for investments from Department of Science and Technology (DST)
	3. Impactful initiative by IHUB-ANUBHUTI
	4. Business Development team
	5. Connect CoRover with different Ministries
	6. Status of sanctioned projects by IHUB-ANUBHUTI

 The summary of the discussion on different points is given below -

1. **Good performing projects of IHUB-ANUBHUTI**
* Mr. Saurabh Chaubey updated the HGB members that out of all Goof performing projects 03 (three) PIs of the research project will be present during the meeting.
1. **Clarification for investments from DST**
* Mr. Saurabh Chaubey updated the HGB members that IHUB-ANUBHUTI wrote an email for guidance. Dr. Ekta Kapoor, suggested to discuss it during the TiHs (TIPS 2.0) meeting with experts on April 06, 2023.
1. **Impactful initiative by IHUB-ANUBHUTI**
* Mr. Saurabh Chaubey briefed about the recent progress in collaboration with PATH Foundation, to develop and deploy mental health-related technology.
* He also updated HGB members about the recent progress in collaboration with the Department of Rural Development and the Department of Telecommunication.
* He also updated the HGB members that IHUB-ANUBHUTI has identified cancer detection as one of the Grand Challenges and grouped 04 (four) projects under it.
1. **Business Development team**
* Mr. Saurabh Chaubey briefed about the status of the recruitment of the Head (Business Development) to help commercialization of research projects as well as startups and the activities of Business Development that has been started with 04 (four) research projects and 02 (two) startups under the guidance of Mr. Anupam Saronwala (Advisor, IHUB-ANUBHUTI).
1. **Connect CoRover with different Ministries**
* Mr. Saurabh Chaubey updated the HGB members that IHUB-ANUBHUTI discussed the business development plan with the team of CoRover and identified relevant ministries and also informed HGB members that CoRover is going to launch Indian GPT very soon.
* He also informed HGB members that IHUB-ANUBHUTI invited the startups to the TIPS 2.0 meeting to connect with different ministries.
1. **Status of sanctioned projects by IHUB-ANUBHUTI**
* Mr. Saurabh Chaubey updated the HGB members that IHUB-ANUBHUTI has reviewed and classified the projects into Satisfactory, Average, and Poor.
1. **Update on Research projects**
* Mr. Saurabh Chaubey updated the HGB members about the Annual review of the research projects.
* He mentioned that 13 (thirteen) Satisfactory category projects will be continuing and PRSG (Project Review and Steering Group) will review and approve the revised budget for them,
* 05 (five) average category projects must submit their progress by the end of March 2023, which will be examined by PRSGs, and IHUB-ANUBHUTI will decide whether or not to continue these projects based on the PRSGs' report.,
* And 10 (ten) poor category projects which may be discontinued.
* He also updated that IHUB-ANUBHUTI updated the mechanism for the review of these projects as per the recommendation of the DST and BoD.
1. **Composition of PRSG**

Mr. Saurabh Chaubey updated the HGB members that there may be the following 06 (six) members in each PRSG with a quorum of 3/5th of the members.

1. Project Director (s), IHUB-ANUBHUTI
2. CEO, IHUB-ANUBHUTI
3. Head (Technology), IHUB-ANUBHUTI
4. External Technology Expert
5. External Business/ Domain Expert
6. External IP Expert
* He also mentioned that IHUB-ANUBHUTI is recruiting a Head (Technology). As of now for this PRSG there may be other domain experts.
1. **Progress of Medical Cobotics Center (MCC) and Office Space**
* Mr. Saurabh Chaubey updated the HGB members about the status of MCC and Office space work with tentative timelines.
1. **Startup Program Update**

Mr. Saurabh Chaubey updated the HGB members about the Startup Program.

* He mentioned that IHUB-ANUBHUTI is providing Technical mentors for guidance, and business mentoring to the Neuranics Lab Pvt. Ltd. and updated the recent achievements of Neuranics Lab Pvt. Ltd.
* Prof. Pushpendra Singh and Mr. Saurabh Chaubey answered Dr. Manish Gupta that Neuranics Lab Pvt. Ltd. can do a Complete Blood Count (CBC) in 10 minutes.
* Mr. Saurabh Chaubey updated the achievements of CoRover Pvt. Ltd. to the HGB members.

**Comments by Mr. Anupam Saronwala**

* As these Startups have already some private sector customers, the approach of IHUB-ANUBHUTI is to connect the Startups with Government entities through DST.
* He updated the stage and the future roadmap of each startup.
* He also mentioned the status and stage of the 04 (four) technologies that are claimed technology developed previously by the PI with the future road map to bring these technologies from TRL 3 or 4 to TRL 9.

**Comments by Dr. Manish Gupta**

* There should be some faculty experts who will do Technical Due Diligence on these Startups.

**Answered by Mr. Anupam Saronwala**

* As of now, IHUB-ANUBHUTI doesn’t have any faculty experts for Due Diligence but after the Reviews of all Research projects by PRSG, we will onboard several faculty experts.

**Comments by Prof. Ranjan Bose**

* After the formation of PRSG(s), IHUB-ANUBHUTI needs to share the list of PRSG(s) with the members of HGB.
1. **Roadmap for the Startup Programs**
* Mr. Saurabh Chaubey updated the HGB members about the Roadmap for the Startup Programs including CPS-SSS, CPS-EIR, CPS-PRAYAS, CPS-Incubation, and CPS-DIAL with tentative timelines.
1. **Roadmap for Grand Challenges and Competitions (GCC)**
* Mr. Saurabh Chaubey updated the HGB members about the Roadmap for the GCC with tentative timelines. He also mentioned the deliverables from the GCC to the HGB members.
1. **Other Updates**

Mr. Saurabh Chaubey updated the following achievements and progress to the HGB members. These are as follows:

1. IHUB-ANUBHUTI is going to sign MoU with the Department of Telecommunication, Infosys Center of AI, IIIT-Delhi to develop solutions for secure telecommunication networks.
2. IHUB-ANUBHUTI is going to sign MoU with the Ministry of Rural Development to develop solutions for rural development using Cognitive Computing and Social Sensing.
3. IHUB-ANUBHUTI is going to sign MoU with the PATH Foundation to develop a WhatsApp chatbot for anxiety, depression, and deployment across geographical locations in India.

**Comments by Prof. Pushpendra Singh**

* Prof. Pushpendra Singh highlighted the status of the discussion with Path Foundation and the deliverables from this MoU to the HGB members. He also explained the connectivity of this MoU with the GCC with tentative timelines.

**Comments by Dr. Manish Gupta**

* IHUB-ANUBHUTI need to connect with Startup Wysa to get more collaboration.
1. IHUB-ANUBHUTI is in discussion with NVIDIA for collaboration to problem statement sourcing and building up a mentors pool for the Startups and Research Projects.
2. IHUB-ANUBHUTI is in discussion with MAX Healthcare group for healthcare-related research and Startup support.
3. **Presentation by PI(s)**
4. **Dr. Tanmoy Chakraborty**

**Project Title: Leveraging Multi-modality in Understanding and Summarizing Task-Oriented Dialogue Systems**

Dr. Tanmoy Chakraborty explained the status and future roadmap of the research project.

**Comments by Dr. Manish Gupta**

* Connect with Wysa regarding the deployment of their chatbot in mental health.
* Instead of building paradigm models from scratch, use pre-trained models for much better results.

**Answered by Dr. Tanmoy Chakraborty**

* All models are pre-trained and fine-tuned on datasets.

**Other comments by Dr. Tanmoy Chakraborty**

* Dr. Tanmoy Chakraborty underlined the Silent aspects of the aforesaid models in response to Dr. Ekta Gupta's question.
* He also requested IHUB-ANUBHUTI to find out the potential customers for their technology.
* He also requested Dr. Manish Gupta to connect with the Startup Wysa.

**Comments by Dr. Ekta Kapoor**

* IHUB-ANUBHUTI needs to focus on the translation of the technologies.
1. **Dr. Sarika Jain**

**Project Title: Multilingual and Culturally Customized Legal Information Processing and Management**

Dr. Sarika Jain explained the status and future roadmap of the research project.

**Comments by Dr. Manish Gupta**

* Dr. Sarika needs to present papers in tier-I Journals or conferences.
* Need to use the NLP/ DL instead of manual ontology can’t be scalable. It should be automated.

**Comments by Dr. Ekta Kapoor**

* Need to focus and identify potential customers.
* Aware of the National requirements and rules & regulations of the Ministry of Law and Justice.
1. **Dr. Arjun Ray**

**Project Title: Assessment of Drug Efficacy in Indian hereditary lineage: A pharmaco-genomic Study**

Dr. Arjun Ray explained the status and future roadmap of the research project.

**Comments by Dr. Ekta Kapoor**

* May need to identify any ongoing project related to precision medicine funding by the Department of Biotechnology for collaboration.

**Comments by Dr. Manish Gupta**

* Need to validate through some independent pharma companies.

**Other highlighted point(s) by Prof. Pushpendra Singh**

* Prof. Pushpendra Singh highlighted the publications’ sources as discussed in the previous HGB meeting. He informed the HGB members that most of the PI(s) are targeting tier-I conferences and Journals.
1. **The following items are discussed as Action items:**
2. After the formation of PRSG(s), IHUB-ANUBHUTI needs to share the list of PRSG(s) with the members of HGB.
3. IHUB-ANUBHUTI need to connect with Startup Wysa to get more collaboration through Dr. Manish Gupta regarding the MoU with Path Foundation and the research project of Dr. Tanmoy Chakraborty.
4. IHUB-ANUBHUTI to find out the potential customers for the technology being developed by Dr. Tanmoy Chakraborty.
5. IHUB-ANUBHUTI needs to focus on the translation of the technologies.
6. Connect the NLP researcher with Dr. Sarika Jain for guidance.

The meeting ended with thanks by the Chairman.

For and on behalf of

IHUB ANUBHUTI-IIITD FOUNDATION

(Mr. Saurabh Chaubey)