

Event Report

Organised by E-Cell, Jadavpur University

Event Title: Industry Visit R&D inGreens

Event Date: 23rd February, 2024

Event Time: 12:00 pm - 8:30 pm

Event Location: WEBEL Building ,Saltlake Sector-V,KoI-700091

Faculty Coordinator in Charge: Prof. Aranyak Chakraborty, Prof. Pranibesh Mandal

Student Coordinator in Charge:Samayan Mazumder, Project Fellow, IIC

Event Industry Coordinator :

Dr. Subir Saha, Director, R&D, InGreens

Introduction:

The engaging meeting with Dr. Subir Saha, a trailblazing entrepreneurship experience in the agricultural drone technology sector, held on February 23 at InGreen Office, provided valuable insights into innovative projects and challenges faced in the industry.

Discussion:

Dr. Saha initiated the discussion by highlighting his groundbreaking ventures in utilising drones for fertiliser propagation in agricultural fields. While showcasing the potential of drone technology in enhancing agricultural practices, he also shed light on the challenges encountered due to the high cost of 250V DC batteries and BLDC motors essential for drone operations.

The conversation delved into the complexities associated with the manufacturing of 250V DC batteries and BLDC motors, emphasising the intricacies involved in achieving cost-effective production at scale. He elucidated on the technical intricacies and material requirements that contribute to the elevated costs of these components, posing a significant barrier to widespread adoption and deployment of agricultural drones.

He also spoke about an innovative Rice Analysis project that leverages the capabilities of image scans captured by a Raspberry Pi device to enhance the efficiency and accuracy of rice quality assessment. By harnessing the imaging technology of the Raspberry Pi, this project aims to streamline the process of analysing rice grains based on various parameters such as size, shape, colour, and defects. The Raspberry Pi device serves as a cost-effective and portable tool for capturing high-resolution images of rice samples, enabling researchers and farmers to conduct detailed assessments without the need for specialised equipment. Through advanced image processing algorithms and machine learning techniques, the project seeks to automate the analysis of rice grains, providing valuable insights for optimising crop management practices and ensuring quality control in the agricultural sector and a possible B2B industry market utilisation.

Key Highlights:

The prohibitive cost of 250V DC batteries and BLDC motors poses a considerable challenge for entrepreneurs and innovators in the agricultural drone technology space, limiting the accessibility of advanced drone solutions to a broader market.

Dr. Saha underscored the importance of research and development efforts aimed at optimising the design and manufacturing processes of these critical components to reduce costs and enhance efficiency.

The complexities associated with mass manufacturing 250V DC batteries and BLDC motors were discussed in detail, highlighting the need for strategic partnerships and collaborative initiatives to overcome these challenges and drive innovation in the industry.

Conclusion

The meeting with [Entrepreneur's Name] provided a comprehensive understanding of the opportunities and obstacles in the agricultural drone technology landscape. The discourse on the cost challenges related to 250V DC batteries and BLDC motors underscored the importance of addressing these issues through concerted efforts and innovation to propel the industry forward.

In conclusion, the event served as a platform for insightful discussions and collaborative efforts to navigate the complexities of agricultural drone technology, paving the way for future advancements and breakthroughs in sustainable farming practices.

Participants Attendance:

ATTENDANCE SHEET

Name of the event... Greenthink Ventures Pvt. Ltd. U.T.D.
 Date & Time... 23.12.2024... 9 PM... Venue... 1st Floor, Main Building, Sikkim Bhawan, Dilliguda, KOL-700091

Sl. No.	Name	Department	Year
1.	Piyush Kumar Gupta	POWER ENGG.	UG-2
2.	Trishaditya Banerjee	POWER ENGG.	UG-2
3.	Megha Das	GEOLGY	UG-1
4.	Tanfique Ali	FTBE ENGG.	UG-1
5.	Ayushi Banerjee	MME	UG-2
6.	Om Karmakar	POWER ENGG.	UG-1
7.	Disha Chowdhury	Production Engg.	UG-2
8.	Shreyshi Das	Production Engg.	UG-2
9.	Koushik Bera	Production Engg.	UG-2
10.	Pradpto Penu	Production Engg.	UG-2
11.	Anuska Mukherjee	Chemistry	UG-2
12.	Pratyasha Chatterjee	Chemistry	UG-2
13.	Nehalie Das	Maths	UG-1
14.	Kayana Dey	Geology	UG-1
15.	Teet Paul	Geology	UG-1
16.	Barnali Sen	CHE	UG-1
17.	Sweta Sengupta	Civil	UG-2
18.	Snati De	CHE	UG-1
19.	Omkar De	English	UG-1
20.	Sayanjani Paul	English	UG-2
21.	Riti Hemamba	CL	UG-2
22.	Bhaskar Sarkar	CL	UG-2
23.	Koel Paul	MME	UG-1
24.	Soujanya Biswas	CHE	UG-2
25.	Disha Sen	Civil	UG-1
26.	Dibakar Sarkar	IT	UG-2
27.	Koushiki Biswas	IT	UG-2
28.	Poushali Laha	IT	UG-2
29.	Mustahid Ali	IT	UG-2
30.	Anya Chandra	CSE	UG-1
31.	Danish Molla	FTBE	UG-2
32.	Disha Mukhopadhyaya	English	UG-2
33.	Rajarshree Chatterjee	Maths	UG-2
34.	Swastika Sengupta	Geology	UG-3
35.	Shetali Roy	FTBE	UG-3





