Department of Aeronautical Engineering

Participation in Anveshana – National Level Exhibition 2026

The **Department of Aeronautical Engineering** proudly reports its participation in **Anveshana – National Level Exhibition 2026**, organized by **Agastya International Foundation** in association with **Samsung Semiconductor India Research**. The exhibition was held on **11–12 February 2026** at **Crown Estate, Bengaluru, Karnataka**.

Project Title

HERD-TRACK 360 — UAV-Assisted Smart Wearable for Livestock Surveillance

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Collaboration

The project was developed in collaboration with **Government Higher Primary School (GHPS), Basavanna Nagar**, fostering a strong **school–college partnership** and promoting experiential learning and social innovation.

Team Details

Engineering Student Members:

- Likith More
- N. Dilip

School Student Mentees (GHPS, Basavanna Nagar):

- Vishalya
- Zoya Zabeen

Faculty Guide:

- **Mr. Suprith M**
  Assistant Professor,
  Department of Aeronautical Engineering

Selection Achievement

Out of **1000+ project submissions** from across India, **only 45 teams** were shortlisted after three rigorous phases of expert evaluation. The national-level selection of this project

reflects the department's commitment to **innovation, research excellence, and societal impact**.

Project Overview

HERD-TRACK 360 is an innovative solution aimed at addressing critical challenges faced by livestock farmers, particularly in rural areas.

Key Features:

- Solar-powered smart wearable for livestock
- Real-time monitoring of body temperature, heart rate, activity, and GPS location
- UAV-assisted data relay for remote-area connectivity
- IoT-based alert and monitoring dashboard

Problem Addressed

- Undetected livestock health issues
- Loss of animals during grazing
- Delayed veterinary assistance
- Economic risks to livestock-dependent farmers

Significance and Social Impact

The system enables early disease detection, prevention of livestock loss, timely emergency alerts, farmer empowerment through technology, and support for sustainable agriculture.

Feedback from Experts

The project received valuable technical feedback from experts during the exhibition. These inputs will be incorporated into further development and future research work.

Acknowledgement

We extend our sincere gratitude to **Dr. Prabhakar Cheriyadth** sir,General Secretary,

& **Mrs. Sunita Prabhakar madam**, Director, Gopalan Foundation, for their constant support.

We also extend our thanks to **Dr. Arun Vikas Singh**, Principal and **Dr. Purushotham G,** HOD for their encouragement.

Sincere thanks to Head Mistress Nagalakshmi mam, **Government Higher Primary School (GHPS), Basavanna Nagar**.

Conclusion

Participation in this prestigious national exhibition provided valuable exposure and reinforced the department's vision of developing **technology-driven solutions for real-world societal challenges**, marking a proud milestone for the department and the institution.


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AnveshanA
BUILDING BRIDGES TO INNOVATION


13- HERD-TRACK 360-UAV ASSISTED SMART WEARABLE FOR LIVE STOCK SURVEILLANCE
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SAMSUNG
HERD-TRACK 360


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