AWARD APPLICATION FORM			
Project Title	Live Stock Management System using GNSS Technology		
Name of the College	Velagapudi Ramakrishna Siddhartha Engineering College		
Address	Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada		
Country	India	State	Andra Pradesh
Pin code	520007	Website	VRSEC – Velagapudi Ramakrishna Siddhartha Engineering College – Top Engineering College in Andhra Pradesh (vrsiddhartha.ac.in)
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GIVE TWO PAGE ABSTRACT OF THE PROJECT (NOT EXCEEDING 450 WORDS, CHARTS/DRAWINGS MAY BE ANNEXED)

Project Title: Live Stock Management System Using GNSS Technology.

Product Name: PASHU MITHRA.

Introduction:

Agriculture not only includes plants and their corresponding problems but, also includes cattle, Poultry Management, etc. Our Project Is **PASHU MITHRA**, which is about Live stock management using Global Navigation Satellite System(GNSS).

CASE STUDY -1(The Statesman)

1.20 Lakh Cattle Fell Prey To Train Accidents In Four Years.

CASE STUDY -2(The Times Of India)

In 2017, a Times of India report cited veterinary officials and animal welfare groups estimating that around 1,000 cows die annually just in the northern city of Lucknow from eating plastic.

Methods:

We Solved and Vanquished the Problem of Monitoring Livestock like Cows, Buffalos, Goats, Sheep, etc

By arranging The Geo fencing. **Geofencing** is a virtual boundary defined by the user who is grazing the cattle. if the cattle cross the virtual boundary then we will take response measures in order to make sure that the cattle are not lost.

By using LORA (Long Range Technology) we can communicate the live location of the cattle(By Tagging them

with Navic modules) and LORA Can Be helpful in transmitting live data over long distances with low power consumption.

Live Tracking Cattle with LORA Module and Geo-Tagging of animals.

Our Usage of Geo fencing Technology will result in:

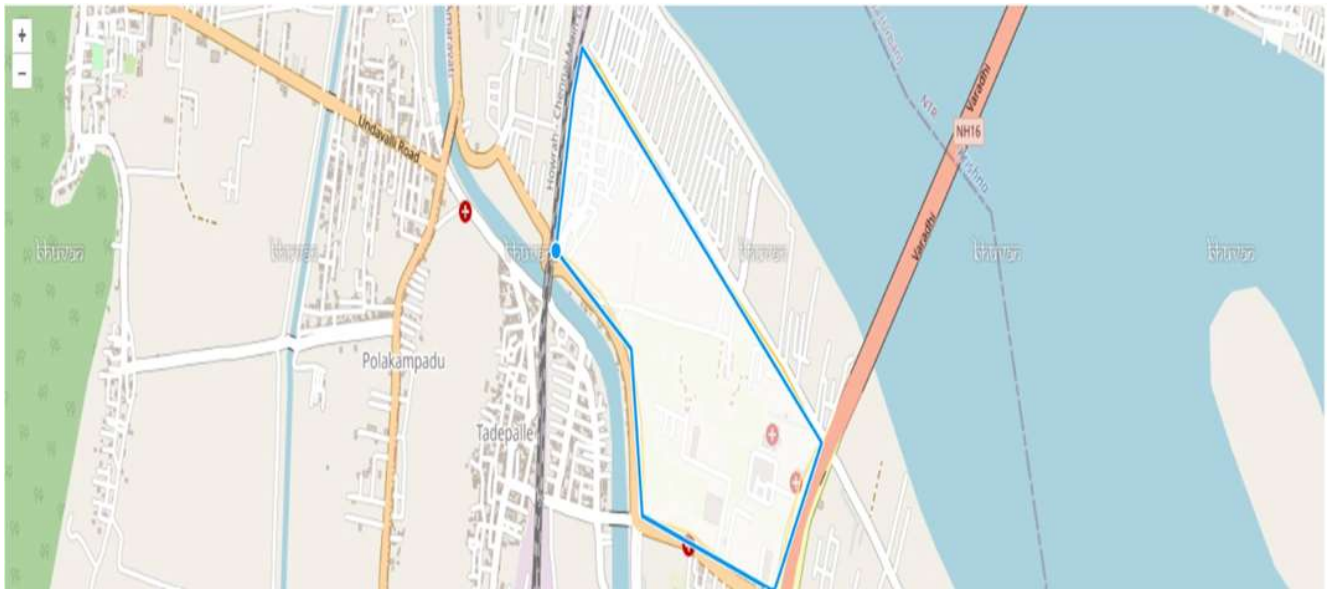
1. Improved Animal Tracking
2. Better Resource Management
3. Increased Efficiency
4. Improved Record Keeping
5. Enhanced LiveStock Security

Results:

With the help of **Open Layers** and the data that is collected from the Bhuvan wsm services given by satellites developed by **ISRO** from the **NAVIC** constellation for GPS, We Made our product to be User friendly. Users can select the virtual boundary (Geo fence) of any Closed Shape For Better and more secure Live Stock.

We Selected The virtual Boundaries as shown below:

1. Selected the Miscellaneous virtual boundary:



2. Selected the Circle shaped virtual boundary:

Conclusion:

We conclude that the livestock can be managed by arranging the virtual boundaries (Geo-fencing) using GNSS Technology.

Award Rules:

1. There is no fee for participation.
2. The contest is open to all B.E/B.Tech students from affiliated colleges/universities worldwide.
3. Participation is open to teams that can have up to five members. Team members can be from any semester, but from the same Institution. There should be a faculty member for each team as the Team Guide.
4. Teams must submit a two-page abstract of their project in a specified format. (This Application)
5. The project must be original work.
6. The copy of the abstract should be submitted online at https://csiawards.inapp.com/apply/ on or before 20th February 2023.
7. The winners are decided based on a two-stage expert evaluation. The first stage evaluation of the abstract is based on the project idea and its implementation prospects.
8. The winners selected for the second round presentation will be intimated via email.
9. The second round of evaluation will be through video conferencing.
10. The final stage of evaluation is the demonstration of the software project before the judging panel which will also be conducted through video conferencing.
11. Project entries will be evaluated based on factors such as Innovativeness, Feasibility and Relevance.
12. The decisions of the award evaluation committee shall be final.

Prizes:

- First Prize: Award Instrument and ₹ 50,000
- Consolation Prize: Award Instrument and ₹ 25,000
- Placement opportunities and Cash prizes for all finalists