Abhay Pal

Dehradun Uttarakhand

Dev bhoomi Uttarakhand University

Dehradun (248007) India

Subject: Proposal for Funding and Support for the Guardian Yan Project

Respected Sir,

I hope this letter finds you in good health and high spirits. I am writing to introduce you to an innovative project developed by my team, named Guardian Yan, and to seek your esteemed office's support and funding for its successful implementation.

Project Overview

Guardian Yan is an advanced accident detection and response system designed to reduce fatalities and injuries in vehicular accidents. This system includes a module that can be installed in cars and bikes, which detects collisions and sends alerts to local authorities and a centralized database. Furthermore, it deploys drones equipped with cameras and fire extinguishing tools to the accident site.

How Guardian Yan Works

1. Vehicle Module Installation:

- Each vehicle is equipped with a module costing under ₹1000.

- The module includes an accelerometer, GPS, and communication system.

2. Accident Detection:

- The accelerometer continuously monitors for abnormal readings.

- If a high reading is detected, a 15-second beeper activates inside the vehicle.

- If the beeper is not cancelled within 15 seconds, the system assumes an accident has occurred.

3. Alert System:

- The system sends a location message to local authorities and a centralized database.

- The message includes the location, severity, and type of vehicle involved in the accident.

4. Drone Response:

- The nearest drone center (within 10-20 kilometres) is identified.

- A drone is launched to the accident site with:

- A regular camera for live feed to emergency responders.

- An infrared camera to detect internal injuries.

- Fireballs to extinguish potential fires.

Funding and Support Requirements

To successfully implement Guardian Yan, we require the following funding and support from the government:

1. Funding for Vehicle Modules:

- Installation of modules in 10,000 vehicles: ₹1 Crore (₹1000 per vehicle).

2. Establishment of Drone Centers:

- Setting up 10 drone centers across strategic locations: ₹5 Crores.

- Each center will be equipped with drones, cameras, and fire extinguishing tools.

3. Research and Development Support:

- Collaborating with research institutions for advanced accelerometer and infrared camera technology: ₹50 Lakhs.

- Data analysis and machine learning for accident prediction and severity assessment: ₹1 Crore.

4. Operational Costs:

- Annual operational and maintenance costs: ₹2 Crores.

5. Total Funding Required:

- Initial setup and first-year operational costs: ₹9.5 Crores.

6. Initial Sheet Funding: 10.L

Benefits of Guardian Yan

- Rapid Emergency Response: Immediate detection and alerting of accidents to local authorities.

- Preparedness: Live video feeds help emergency responders prepare for the situation.

- Fire Prevention: Onboard fireballs address fires quickly, reducing damage and saving lives.

- Automated System: Reduces human error in reporting and responding to accidents.

- Data Collection: Provides valuable data for traffic safety improvements and accident prevention strategies.

Request for Government Support

We kindly request the following from your esteemed office:

1. Financial Support: Direct funding to cover the setup and operational costs.

2. Regulatory Support: Facilitation in getting necessary approvals and clearances.

3. Research Collaboration: Partnership with government research institutions for advanced technology development.

4. Public Awareness Campaigns: Government-backed campaigns to promote Guardian Yan and encourage vehicle owners to participate.

We believe that with your support, Guardian Yan can significantly reduce accident fatalities and injuries, making our roads safer for everyone.

Thank you for considering our request. We look forward to your positive response and the opportunity to discuss this proposal in detail. Please feel free to contact me at [Your Phone Number] for any further information or clarification.

Yours sincerely,

Abhay Pal

Guardian Yan Project Team