



1. Acoustic Device
2. Speaker
3. Solar Panel



Problem Statement

Wild animals, Birds and Rodents damage to various agricultural crops and other areas is high. The damage starts from sowing and seedling stage. The extent of damage ranges from 70-90% during sowing stage, compelling farmer to undertake repeat sowing. During pod setting or seed formation stage, Wild animals, Birds and Rodents inflict damage to an extent of 5-50% in different crops and other areas. During this stage, farmers and business owners are forced to lose the crop and loss to property.

Solution

Keeping in view of this, ICAR has initiated a new project in XII plan on All India Network Project on Vertebrate Pest Management (AINP on VPM), Professor Jayashakar Telangana State Agricultural University and ABR Consulting Services Pvt. Ltd. to address the problem raised by these higher vertebrates, Birds and Rodents in agricultural landscapes and other areas.

ABR Electronic Cannon is an integrated electronic device, very effective in deterring the monkeys, peafowl and birds without causing any harm to them in Agricultural, Aquaculture, Horticulture, and Airports & Airfields.

Area of Application

- | | |
|-------------------------|------------------------------------|
| ✓ Agriculture | ✓ Bus Stations |
| ✓ Aquaculture | ✓ Railway Stations |
| ✓ Floriculture | ✓ Tourist places |
| ✓ Horticulture | ✓ Apartments & High rise buildings |
| ✓ Food Processing Units | ✓ Gated Communities |
| ✓ Food Warehouses | ✓ Religious places |
| ✓ Airports | |



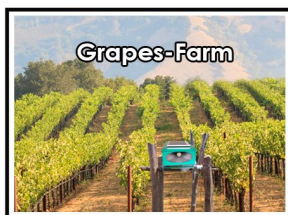
Features

- ✓ An IoT based device operated both manually and by using high-end technology (BT, Wi-Fi, GSM/GPRS and RF) and operates on both normal and smart mobile phones. It produces huge sound to scare and deter birds from crop fields and other areas. The device works on randomization technology.
- ✓ The device is designed with several call sequence categories such as alarm, distress, predatory, silence, human, instrument and nature calls.
- ✓ Users can operate the device remotely using any one of the following technologies - Bluetooth, Wi-Fi, GSM and Radio Frequency (RF).
- ✓ The device comes with GPS chip set to identify the device location.
- ✓ The device comes with a Sensor and user will receive device tampering alerts when device is opened.
- ✓ Device can be charged with solar power as well as with AC power adapter.
- ✓ On a single charge, the device operates continuously for 16 to 18 hrs.
- ✓ It is easy to assemble and safe to use.
- ✓ The device comes with auto cut-off functionality and low-battery alert which helps make the battery life longer.



Benefits to Farmers :

- ✓ This gadget is harmless, no casualty happens to birds, animals and human.
- ✓ Elegant, unique, portable and easy to carry the device that comes in a beautiful carry bag.
- ✓ This gadget is Made of Aluminum and it is designed to have a longer life span.
- ✓ Covers an distance of 1000mts from the place of installation with 270 degree of voice spread.
- ✓ No need of manpower to operate this device, zero labor cost.
- ✓ Return on Investment within 1-2 crop seasons.
- ✓ Value for Money with Zero Maintenance.
- ✓ Device comes at Affordable price to the farmers with 12 Months Warranty.
- ✓ The incremental cost benefit ratio by use of this ABR Electronic Cannon is 1:3.2.



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