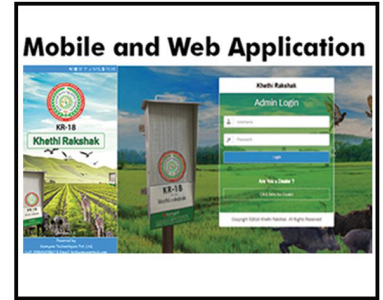


A Potential Electronic Gadget to Minimize Wild Animals, Birds and Rodents Menace

(Developed by AINP on Vertebrates Pest Management, PJTSAU Hyderabad and ICAR-CAZRI Jodhpur)



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.

An IoT enabled bioacoustics device (ABR WARS) is used for deterring wild animals from crop fields and other areas. Bioacoustics technology uses alarm, distress and predatory calls for target and closely related species. These sounds convey the message "this area is dangerous" to the target animals in their own language.

Area of Application

✓ Agriculture	✓ Airports
✓ Aquaculture	✓ Railway Station
✓ Horticulture	✓ Bus Stations
✓ Floriculture	✓ Forest Adjoining Areas
✓ Industries	
✓ Food Processing Units	
✓ Food Warehouses	



▶ Features :

- ✓ An lot 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 wild animals 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.
- ✓ At the ambient noise level of 42dB the device protects an area of 8 to 10 acres, at 37dB of ambient noise, the sound from the device can cover up to 18 to 20 acres.
- ✓ 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.
- ✓ The device is used only to scare away the animals and will not hurt them physically. Does not cause casualty to humans or animals.
- ✓ Environment-friendly, no sound pollution as sound produced is within permissible limits.
- ✓ The device is made up of weather proof and durable material. It is also rust-proof.
- ✓ Return on Investment in one crop season with 1:2.8 cost benefit ratio.
- ✓ Trademarked, Patented, GeM listed, CE Certified product.
- ✓ Available in 2 models, the device comes with one year warranty.

▶ Benefits to Farmers :

- ✓ The equipment should be ideally installed when the crop damage is beginning.
- ✓ Bioacoustics is 85% effective in repelling the wild boar from the crop area.
- ✓ Reduces crop damage and enhances the yield of the crop.
- ✓ Reduction in labour cost for crop protection and enhances income to the farmer.
- ✓ It helps in mitigating man-animal conflict.



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