

# ABR Cannon™ (AC-18)

A Potential Tool to Minimize Monkey and Bird Menace in Agricultural Crops

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



1. Cannon Bore
2. Cannon Drum
3. Carbide Container
4. Ball Valve
5. Piezoelectric Igniter
6. Nylon Belt



## 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 Cannon is an integrated mechanical and manual operated device that produces huge sound. The device helps to deter monkeys, peafowl and birds from crop fields and other areas.

**THE TIMES OF INDIA**  
Telangana: Now, special gun to scare monkeys

Dr. Jayashakar Telangana State Agricultural University has come up with a solution to keep rodents & Squirrels and other pests of the city that have been afflicted by monkey menace. The vertebrate pest management division of the university has developed an agr cannon. A gun that generates a sound when fired to scare monkeys away. Farmers are currently using it to protect the crops from monkeys.

V. Viswanath Rao, head of National Vertebrate Pest Management Division, Institute of Agricultural Sciences, The university has developed the device and signed a Memorandum of Understanding with a tech company which is manufacturing them on a large scale. Monkeys have been a big issue especially when it comes to rice. Around 20 days before harvest, monkeys destroyed crops leading to an estimated loss of 70 per cent damage. With agr cannon we can drive them away. The gun has to be used every half an hour to four hours during harvest.

He assures that the device does not harm the animals. "This device will not harm the monkeys but it scares them away. Even (AI) bodies can use them on experimental basis," he said.

"The device is available at the university for Rs 2000. The technology has been transferred to Ganymet Technologies for commercialisation. Damage to crops has come down to 20 per cent with the help of the gun," he added.

Several pairs of Squirrels, including Himalayana and Tringery, have been affected by monkey menace. AIIC veterinary wing officials had asked they would look into suggestions of experts to tackle the issue.

The vertebrate pest management division is also working on several acoustic techniques to control pests.

**वैज्ञानिकों ने तैयार की बंदर भगाने की बंदूक**

बंदरों को दूर करने के लिए एक नया तरीका तैयार किया गया है। यह एक आवाज पैदा करने वाला एक बंदूक है। यह बंदरों को दूर करने में मदद करता है।

डॉ. जयशंकर तेलंगणा राज्य कृषि विश्वविद्यालय ने एक नया तरीका तैयार किया है। यह एक आवाज पैदा करने वाला एक बंदूक है। यह बंदरों को दूर करने में मदद करता है।

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**‘मुंकीगन’పై రైతులకు అవగాహన**

జనవరి 04, 2019  
https://paper.sakshi.com/46501165

జనవరి 04, 2019 : మండలంలో అనేక తారా లామలో రైతులకు విద్యుత్తు అయిన అప్రెంటిస్ మంగళూరు మండలం పరిధిలోని రైతులకు అవగాహన పథకం నిర్వహించారు. ఈ సందర్భంగా అప్రెంటిస్ మంగళూరు మండలం పరిధిలోని రైతులకు అవగాహన పథకం నిర్వహించారు. మండలంలోని రైతులకు అవగాహన పథకం నిర్వహించారు. మండలంలోని రైతులకు అవగాహన పథకం నిర్వహించారు.

**అడవి పందులు, కోతులు, పొలం దాపుల్లోకి రాలేవక**

అడవి పందులు, పొలం దాపుల్లోకి రాలేవక. అడవి పందులు, పొలం దాపుల్లోకి రాలేవక. అడవి పందులు, పొలం దాపుల్లోకి రాలేవక.

**"ABR Cannon is a mechanical device made up of Nickel Chromium Plated, ISI Mark; with 15 to 20 Years durability"**

## Area of Application :

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

## Features

- ✓ Rust free device, made up of Nickel chromium plated, device shelf life is "15-20 Years".
- ✓ The device produces huge sound to scare and deter animals and birds without hurting them physically. Does not cause casualty to humans, birds or animals.
- ✓ Compact and light weight, easy to assemble and safe to use.
- ✓ Elegant portable device, can be easily handled by both men and women.
- ✓ Environment-friendly, no sound pollution as sound produced is within permissible limits.
- ✓ Chromium plating increases the hardness, durability, and corrosion resistance of a surface, while also creating a shiny and smooth surface that is easier to clean.
- ✓ Lower in cost when compared with LPG based devices.
- ✓ Return on Investment within one crop season with 1: 3.2 cost benefit ratio.
- ✓ Safer than both PVC and LPG based cannons.
- ✓ Trademarked, Patented, and GeM listed product.
- ✓ Available in 2 models, comes with one year warranty.

## Benefits to Farmers

- ✓ Covers an area of 3 to 4 acres
- ✓ Reduces the labour cost to the farmers significantly in crop protection expenditure
- ✓ Helps to reduce the crop damage to the extent of 65-75%
- ✓ The incremental cost benefit ratio by use of this Agri Cannon is 1:3.2
- ✓ Return on Investment within 1-2 crop seasons
- ✓ Value for Money with Zero Maintenance
- ✓ Device comes at affordable price to the farmers
- ✓ Use this device 4 hrs in the morning preferably 6:00Am to 10:00Am and in the evening 4:00Pm to 7:00Pm for effective use.
- ✓ Minimize in reducing man- animal conflict in agricultural landscape.



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