



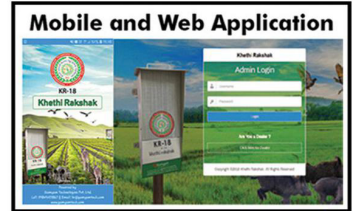
# కేతి రాక్షక (KR-18)<sup>TM</sup>

Integrated IoT based Bioacoustics solution for deterring Wild animals from agricultural crop fields

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



CODE:2



## Human - Wildlife Conflict :The Current Scenario

Wildlife human conflict is on the rise owing to encroachment lack of food in the forest, less predatory pressure and the easy availability of nutritious food in the agricultural landscape have made animals like Macaques, Nilgai Wild boar, Elephant, Deer and Porcupines prone to Cause significant crop losses.

## Our Solution :

"To minimize the Human - Wildlife Conflict" in agricultural crops the "IoT based Bioacoustics" is a new technology, uses only natural sounds of predators, distress and alarm calls of target and closely related species of target animals. The calls are broadcasted using an electronic platforms with sound drives. Bioacoustics tries to convey the message ('this area is dangerous') to the target animals in their own language.

## Benefits to Farmers :

- To deter wild animals from crop fields.
- Randomization of call sequence
- GSM & GPRS connectivity for device functioning
- Covers an area of 8-10 acres at the ambient noise level is around 42db, At 37db of ambient noise the equipment can cover upto 18-20 acres
- Maximum battery life upto 24hrs/day, minimum 12hrs/day
- Operation through AC or Solar power
- Operates using Normal and smart mobile phones
- 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

## MOU:

PJTSAU entered an MOU with Gamyam Technologies Pvt. Ltd. for supply of products across the country.

## Note

**Kethi Rakshak helps in scaring Wild animals from crop fields during vulnerable stages.**



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