Gamyam™
Technologies Pvt. Ltd.

khethi rakshak

Protect your crop from Animals & Birds

Real Time Alerts sent to Cell Phone

Secure Cloud

GPRS   SMS

Cellular Operator

SMS

GPRS

Online Portal
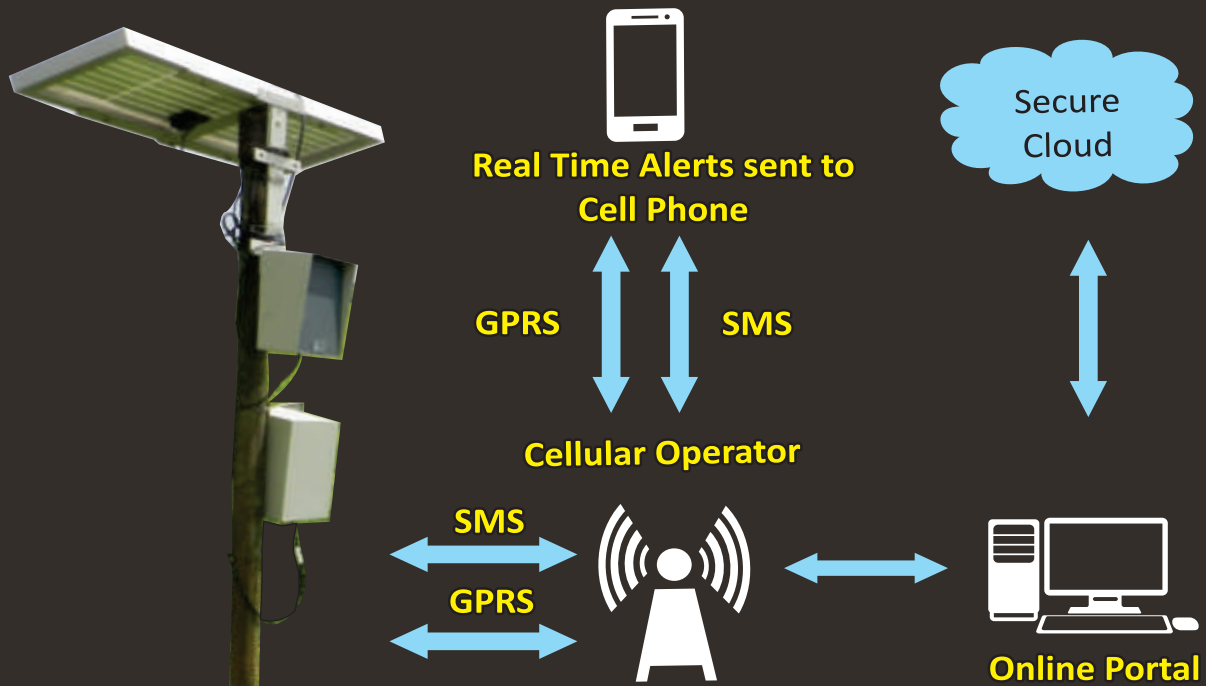
About Khethi Rakshak

Khethi Rakshak – Protect crops from animals and birds, A Machine 2 Machine (M2M) Communication device protects crops from wild animals and birds.

The problem of **wild animal attacks on crop fields** i.e. **crop vandalization** is becoming a very common phenomenon in the state of **Telangana, Andhra Pradesh, Himachal Pradesh, Punjab, Haryana** and many other states. Wild animals like monkeys, estray animals especially cows and buffaloes, wild dogs, nilgais, bisons, elephants deer, wild pigs and even birds like parakeets cause a lot of damage to crops either by running over them or eating them and vandalizing them completely. This leads to **poor yield of crops**.

It has been estimated that at minimum conservative average damage per household of **₹ 6,000, 15 million families could suffer a cumulative loss of ₹ 9,000 crore** every year. This is a very huge amount to loose in a country like India.

Khethi Rakshak system is very effective in driving-off the animals from the fields and keeping them away. The device automatically get switch on based on the system time **or** can be switched on manually using smart phone. With one time charging of the device for 4-6 hours the device works approx. 14 hours.

The device can be charged through 230Volts AC power or when there is no source of AC power to the farmer in the field can charge the device using 12V Solar panel. The device is equipped with Lithium-ion battery, with 14 hours of power backup with one charge. The device works on Single phase or three phase power.

The device also comes with several alerts like Device ON/OFF, Auto switch from AC power to Solar, Low battery alerts, Box tampering alert, Power cut- off, Device theft alert, Shock alerts, Overheat alerts, Maintenance alerts etc.

Device Specifications

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Microcontroller	32 Bit Cortex M4 2 MB Flash; 512kB RAM		GSM Antenna	Internal GSM Antenna Provision For External GSM Antenna
External Data Flash	1Gb Memory		RS-232 Serial Port	Yes
Power Supply	AC 230 V Solar Voltage (12 - 15V) Over Voltage Protection Over Load Protection 11.1V / 13000mA Li-Ion Internal Battery With Charging Mechanism		External Interfaces	AC Power Solar Input Voltage Speaker - 1 Speaker - 2
Battery Back-Up	Internal Battery Back-Up: Minimum 12 Hours		LED Indications	Main Power (AC Power) Internal Battery GSM Network Audio Indication
GSM/GPRS Module	Quad-Band Supporting 850 / 900 / 1800 / 1900 MHZ GPRS Multi-Slot Class 12 Supports TCP/UDP; PPP; FTP; HTTP; SMTP; CMUX; MMS and SSL Protocols High Sensitive: -109 @ 850 / 900 / 1800 / 1900 MHZ Supports LBS Supports Jamming Detection		Mechanical Main Unit	Aluminium Enclosure 135 x 92 x 106 mm (L x W x H)
Audio	Built-In Audio Amplifier Supporting 40W Output (20 + 20W) Number Of Speakers: Two Audio Files Storage: External Data Flash Over The Air Audio Files Update: Supported Random Play Of Audio Files: Supported Configurable Audio Files Sequence: Supported Remote Audio Volume Control: Supported Remote Controlling Of Speakers: Supported		Features	32 Bit, Cortex M4 Microcontroller 125 MB (1Gb) External Data Flash to store audio files Supports Two 20W Speakers Over The Air Audio Files Update Random Play Of Audio File Configurable Audio Files Sequence Remote Audio Volume Control Remote Controlling Of Speakers More than 12 hours internal battery back-up Box Open / Close Alert / Detection Alerts for Main Power & Low Battery Provides Location Of The equipment Remote Device Status Monitoring
SIM Connector	Micro SIM Connector Supports 1.8V and 3.0V SIMs			

Software Specifications

Modules

A three level Hierarchy which will enable a secure access to all the User Roles

- Super Admin
- Dealer
- Farmer

Features

Wide range of Features to provide ease of use and acquire end results

Super Admin
- Dealer Management
- Farmer Management
- Device Management
- Dealer Reports
- Farmer Reports
- Device-wise performance Reports
- Dealer Support
- Farmer Support

Dealer
- Farmer Management
- Device Management
- Reports
- Farmer Support

Farmer
- Device-wise performance reports
- Support / Query
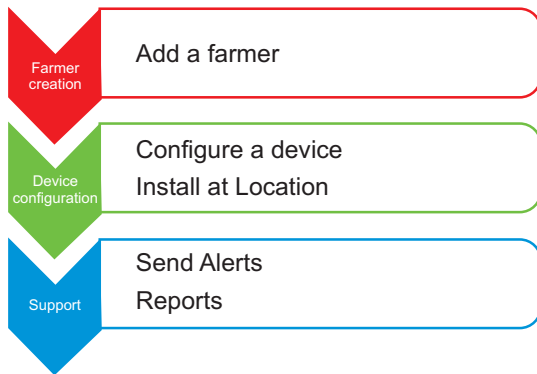
Farmer Management

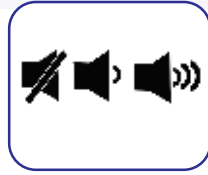Helps in creating and maintaining all the reports and data of a particular farmer

Farmer creation
Add a farmer

Device configuration
Configure a device
Install at Location

Support
Send Alerts
Reports

Device Management

Ease of accessibility and maintaining device from installation till providing end reports to the farmer

Device	
Add a Device	Configure with application

Farmer	
Assign to a Farmer	Install at Location

Reports	
Track through Application	Send Alerts

Visual Studio · Microsoft SQL Server · jQuery · AJAX · HTML5 · .NET
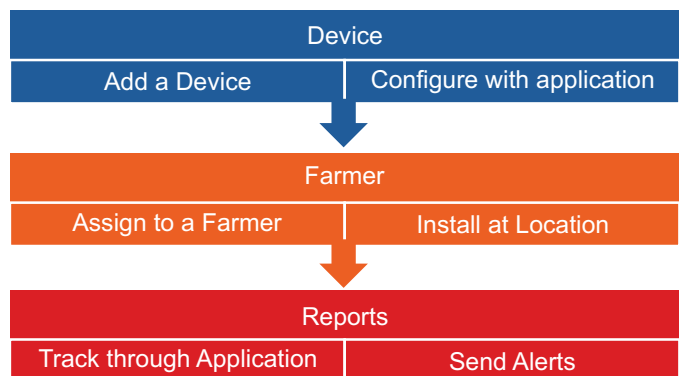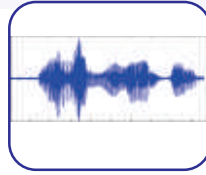
Hardware Features

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Power On/Off	Volume Increase /Decrease via SMS and Manually	Playing specific call sequence through SMS	Location of the device installed	Lat/Long of the Device through cell tower triangulation
GSM Signal Low/High	Unique ID for the device	Lithium ion battery strength	Device working on Main power or battery	Device working/ not working alert when switched on

Software Alerts

Available for Android

Available for web browsers
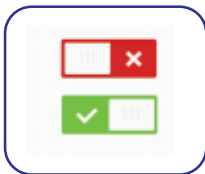
Device On/Off	Switch over from solar to AC current	Low battery alert	Box cover Open/close Alert
Power Cutoff	Over heat/under control Alert	Shock Alert	Change of Location of Device

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! Caution!

✦ One Year warranty, if any manufacturing defect.
✦ Warranty does not apply for any **Intentional tampering, water intrusion** etc.

For Game Changing Careers, Drop Your CV to
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