



## 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.

Street Light – (ABR Street Light) is an IoT enabled solar powered outdoor lighting solution. The device incorporates technology that enables it to be monitored and controlled remotely.

## Area of Application

<input checked="" type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Railway Stations
<input checked="" type="checkbox"/> Horticulture	<input checked="" type="checkbox"/> Apartments
<input checked="" type="checkbox"/> Floriculture	<input checked="" type="checkbox"/> Gated Communities
<input checked="" type="checkbox"/> Corporate Offices	<input checked="" type="checkbox"/> Food Warehouses
<input checked="" type="checkbox"/> Hotels & Restaurants	<input checked="" type="checkbox"/> Religious Places
<input checked="" type="checkbox"/> Airports	<input checked="" type="checkbox"/> Research Stations
<input checked="" type="checkbox"/> Bus Stations	<input checked="" type="checkbox"/> Universities

## ▶ Features

- ✓ An environment friendly solution, works on renewable energy.
- ✓ Available in 2 models - IoT enabled and Sensor enabled.
  - The IoT enabled device is programmed to switch On and OFF automatically during the set hours. The User can set the timings as needed and also switch the device On and Off remotely.
  - The Sensor enabled device works on the principle of Real Time Clock (RTC) and functions on preset timings from 6 pm to 6 am. The device also switch ON and OFF automatically depending upon the day light condition.
- ✓ With the IoT / Sensor enabled device, the User will receive notification of battery health.
- ✓ The device comes with one year warranty.



## ▶ Benefits to Customers

- ✓ Greatly reduce power consumption
- ✓ Real-time monitoring and viewing of the operation status of the IoT solar street light
- ✓ Pollution reducing and energy saving
- ✓ Cost-effective
- ✓ No complicated power facilities
- ✓ Easy installation and maintenance
- ✓ No cable costs or cable theft



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