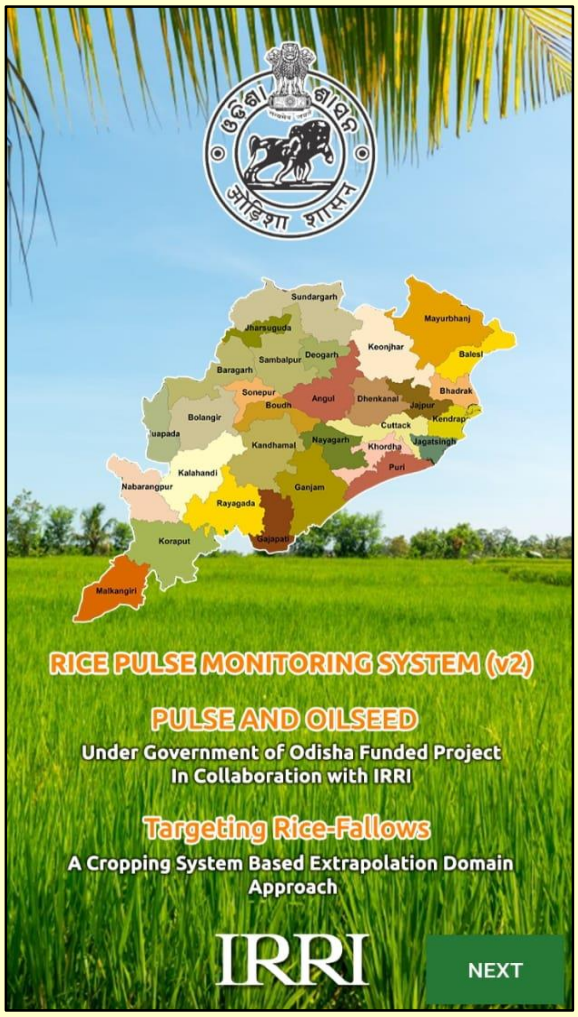
About the Rice Pulse Monitoring System (Version-2.0)



Rice-Pulse Monitoring System (RPMS) is an android (phone/tablet) based survey application system for rice, pulses and oilseed crops. RPMS (V2) can be used to collect and store geo-referenced information, along with a suite of geo-spatial tools to visualize, analyse and manipulate ground data for various needs of Department of Agriculture in different projects. RPMS V2 features include coverage of rice crop (along with Pulses and oilseeds in cropping system mode), user friendly polygon generation and its conversion to various formats (e.g., KML for viewing on google earth), strong backend support and controls, provides overlay and viewing facilities of Geospatial layers (e.g., crop and land information, rice, rice fallow, flood or drought areas). RPMS V2 enables a better understanding of agricultural data for decision making for research and management purposes. RPMS's goal is to is to provide an open source platform that can support online/offline application to cater to the needs of current and future geo-spatial agricultural data collection.

In most of the DOA projects, there is a need to gather geo-spatially validated data collection for various reasons. This is where, we found the Rice-Pulse Monitoring System (RPMS) very useful. We found that this requires various mapping functionalities as well as integration with survey based information. These include: mapping, visualization of collected data on the phone/tablet; the ability to collect point, polygon and GPS tracing data (and then associate this spatial information with all the collected form information). Based on the suggestions from authorities, we have also added basic details of almost 1.7 million registered farmers of Odisha State. At this stage, RPMS handles the form data collection, geo-spatial viewing very well, remote sensing data integration and report generation components.

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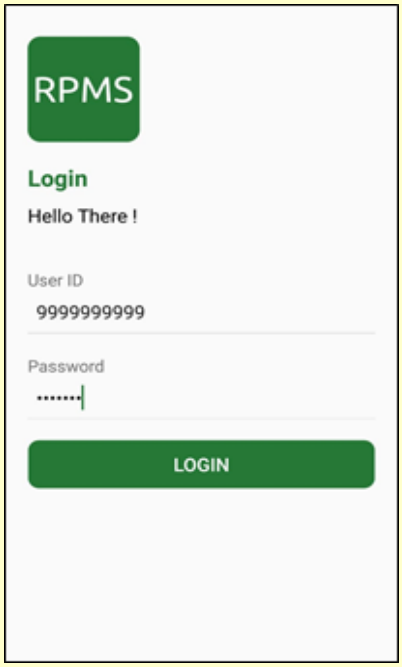
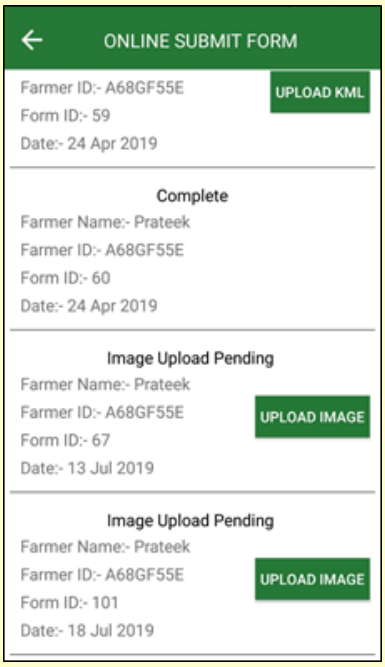
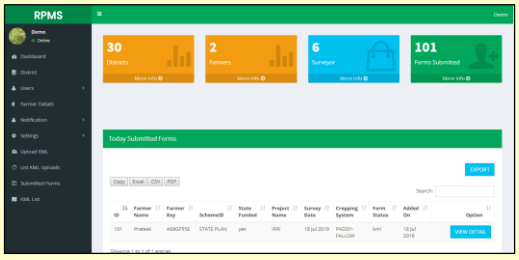
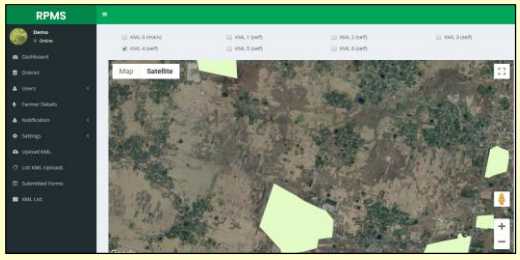
Rice-Pulse Monitoring System provides

1) An Android (phone/tablet) based survey application for Rice, Pulses and Oilseed Crops.
2) An online/offline form for data collection of crops in farmer's field ground information
3) A polygon based survey application along with geo-spatial display for each demonstration plot for precise tracking and monitoring (Collect field data using the RPMS app)
4) Inbuilt records of all existing registered farmers (currently 17 lakh) of Odisha state
5) Automatic updating capability of farmers and survey records at server end
6) Downloading and conversion of data into a geo-enabled format (excel, CSV, KML etc.)
7) Crop and land information (establishment method, inputs and yield) and technological detail, along with photographs sat different crop phenological stages
8) Yield and other related attributes data collection of control and demonstration plots









Major Improvements from Version 1.0

1. *New Modules*
2. *Rice, Pulse and Oil seeds*
3. *Open access to GIS data*
4. *Farmers registration*
5. *Strong Backend controls*
6. *User friendly*

Rice Science for a Better World

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