

Rice Clinic – Telugu Mobile App

Rice is an important crop in India. Rice being climatically the most adaptable cereal, it is grown over a large spatial domain and wide range of landscape types. Farmers are growing rice crop in dry and wet seasons in different climatic zones. Insect pests, diseases and weeds are the major constraints in decreasing Rice Productivity. Farmers are not aware of Integrated Pest Management Technologies and applying more chemicals leading to climate pollution and insect resurgence. This app is developed from the experiences of IIRR scientists to reach farmers with important information on major pests, diseases, weeds and nutrient deficiencies of rice crop and their management. This app is developed using Flutter and Dart.

This App has been developed for 11 major insect pests, 10 diseases and 18 weed species as well as nutrient deficiencies in crops. The app includes the means for identification of pests and symptoms of damage (both text and image) at different stages of their life cycle. It also includes suggested recommended management practices like resistant varieties, planting methods, cultural and chemical control methods. If a farmer cannot identify symptoms of damage or disease, he/she can access an image gallery of visible symptoms, choose the image closest to the visible symptom and access appropriate pest management practices easily using this Rice Clinic app. If the farmer wants to know about pests at a particular stage of rice cultivation, he/she can select the option 'Stages of Rice Crop' and get the information on different pests and related management practices.

How this technology contributed to agricultural advancements or improved farmer practices

- This app once installed it will work without net connectivity
- Farmers can easily access information on insect pest, diseases, weeds and nutrient deficiencies.
- Farmers can easily diagnose the stresses and can use the recommended management practices
- It also suggests the recommended resistant varieties to pests and diseases to control from damage of crop
- The app also provides information on recommended practices at each stage of the crop and also suggests dos and do-nots for healthy crop
- This app can easily upgradable to add new pests and management practices
- This app is developed using android studio and easily installable in android mobile phones

- This app is very useful to farmers at each stage of the crop to improve Rice Production. The app is available in local language TELUGU and also available in ENGLISH and HINDI.

Details of Impact on farmer's livelihood and agricultural practices:

- Farmers could easily access the recommended improved management practices including resistant varieties and need based management practices in improving their rice production.
- Farmers are comparing the given images through the image gallery and accessing the recommended practices in time.
- Since this app is developed from real-time experimental experiences, it covered the real-time field problems of rice crop where farmers are getting quick solutions for the problems.
- It also controls over-dosage of chemicals, which will save the soil health and improves rice production

Rice Clinic-Telugu App Screenshots



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भारतीय चावल अनुसंधान संस्थान
ICAR-Indian Institute of Rice Research

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గోధుమ వర్ణపు దోమ పురుగులు



తెల్ల వీపు దోమ పురుగులు



బ్రౌన్ హెడ్ యొక్క తొలచిన చర్మం

- > తొలి దశలో దోమ ఆశించిన మొక్కలు లేత పసుపు రంగులో మారుతాయి.
- > క్రమేపి మొక్కలు సుడులుగా ఎండిపోతాయి.
- > గోధుమ రంగు దోమలు కానీ తెల్లవీపు దోమలు కానీ మొదళ్ళ దగ్గర గుంపులుగా కనపడతాయి.



యాజమాన్య పద్ధతులు.

నిరోధక శక్తి కలిగిన రకాలు.

- > కాటన్ దొర సన్నాలు(ఎం.టి.యు.1010), విజేత(ఎం.టి.యు.1001), చైతన్య(ఎం.టి.యు.2067), కృష్ణవేణి(ఎం.టి.యు.2077), సూర్య(బి.పి.టి.4358), వజ్రం(ఎం.టి.యు.5249), ప్రతిభ(ఎం.టి.యు.5293), దీప్తి(ఎం.టి.యు.4870), గోదావరి(ఎం.టి.యు.1032) సాగు చేసుకోవాలి.

సాగు పద్ధతులు.

- > కాళిబాటలు తీయాలి సెంటిమీటర్ల దారి వదలాలి. నాటిటప్పుడు ప్రతి రెండు మీటర్లకు 30
- > మురుగు/నిల్వ నీటిని తీసివేయాలి మరియు కుదుళ్ళకు గాలి సోకే విధముగా చేయాలి.
- > పొలాన్ని ఆరగట్టి తిరిగి నీటిని పెట్టడం ద్వారా దోమల ఉధృతిని తగ్గించవచ్చు.

The app has been successfully tested and installed in around 180 farmers' mobile phones for further testing in the field. Earlier Version Mobile Rice IPM was installed on more than 1000 mobiles.

The app is available in Google Play Store with the link :

<https://play.google.com/store/apps/details?id=com.riceclinic.telugu> .