



FARMERS AND FARMING WITH MOBILE App TECHNOLOGY

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“Agriculture experts have introduced smart farming technologies that empower them to minimize costs, maximize yields and enhance profits and there is perhaps no other example of smart farming than with the ‘mobile app’.”

Whenever we read about the tractor, bullock cart and the people who work hard on the fields, the word agriculture comes in our mind today. The time has changed and now technology has come in the agricultural sector from the best seeds to the best agriculture. The introduction of modern technology to trace processes can be done by harnessing the power of technology in agriculture. Along with the use of technologies that are expected to increase farmers' income, so when it comes to technology. Advanced farming system and modern equipment are being used by farmers to increase the quality of their produce as well as fields. The advent of mobility is one of the best and most useful integration of technology.



The level of agriculture in India increasing continuously with the initiation of green revolution, white revolution, golden revolution and blue revolution etc. Agricultural experts have brought in smart farming technology that enables them to reduce costs, increase yields and increase profits significantly. There can be no better example round for smart farming probably compared to today's mobile apps. There are 10 mobile applications whose use has made agriculture more accessible, more productive and profitable for farmers:



1. ICAR Technology (Krishi) App

It includes techniques adopted by ICAR institutes in the fields of agriculture and other science related to agriculture. This application mainly provides an extremely simple way of locating suitable technology based on objects, resources, technology, etc. Keyword based search functionality is available in the app. This app is based on ICAR technology repository for management of knowledge initiative.



2. Kisan Rath app

Central Government launched a mobile application "Kisan Rath" which help farmers as well as traders to get adequate and suitable information regarding transportation for the movement of their produce during lockdown due to corona virus. This app allows transportation of farmers' produce from farm to market and from one market to other market and will also ensure uninterrupted supply between farmers, FPO, APMC, mandis and buyers within the state and other states. It also helps in reducing expenditure and makes a special contribution in better pricing of perishable commodities. Kisan Rath application developed by National Informatics Center searching for vehicles for primary and secondary transportation for agricultural and horticultural production to traders and farmers.



3. CHC Farm machinery app

This is a custom hiring center multi language mobile application platform for agricultural machinery that provides the facility of Hi-Tech hub set up under custom hiring center to the custom hiring services of farm machinery banks to local farmers from various states across the country. The Agri Market app helps farmers personally, who are ready to use the available agricultural utilities and equipment on rent basis as well as availability to increase their agricultural income. Agricultural machinery is available in the CHC, FMB, Hi-tech hub.



4. Agri-market app

The Agri Market mobile application can be used to find out the current market value of crops in the market within 50 km surrounding of the farms. This application is automatically used by mobile GPS users and captures location and obtains current market price information of different crops in the market within 50 km range. If a person does not want to use GPS location, another option is given to get the price of any crop or any market.



5. Crop insurance app

Crop insurance mobile application can be used to calculate the premium of insurance for selected crops on the basis of loan amount in case of farmers taking loans. Can be used to get information on general insurance amount, extended insurance amount, premium details and grant of any notified crop in any notified area.



6. Krishi Kisan app

In order to have better access to the selected plots for the above mentioned activities and proper monitoring, the Krishi Kisan app is compulsory to complete the land tagging of these plots across the country. In this direction, the Department of Agriculture has developed a mobile application using related demonstration plots and farmers' fields and can be used to find out the location of this. It will help to a great



extent in proper monitoring of annual action plan, budget allocation and planning. This is a big step towards digital agriculture. Developing mobile application by providing necessary information to farmers quickly. With the click of this button, they can get information about the performance in the nearest area and distribution of special seeds in their area.

7. Kisan Suvidha app

It is a ubiquitous mobile application developed to provide farmers with the necessary information quickly with a button. With the help of this app, you can get accurate information of current day and next 5 days weather, market prices, agricultural advice, crop protection, integrated pest management etc. Other features like extreme weather alerts and the market value of the commodity in the nearest area and the state as well as the maximum price in India have been added to empower farmers in the best possible way.



8. M-Kisan app

This allows farmers and all other users to get advice and information being sent by experts and government officers at various levels through M-Kisan portal without registering.



9. Pusa Krishi app

Union Minister Shri Radha Mohan Singh launched a new mobile application on 21 March, 2016 at the three-day agriculture fair in New Delhi. This helps farmers to take the technology to the farm for farming. It will help in finding easy solutions to the problems of the farm and also helps in getting information about the weather and accordingly they takes measures to save the crops. It also provides information to farmers about new varieties of crops developed by the Indian Council of Agricultural Research and the farming as well as resources of agricultural machinery and its implementation will also help the farmers to increase their income.





10. IFFCO Kisan app

It is an app presented by Indian Farmers Fertilizer Cooperative Limited (IFFCO) dedicated to farmers of India, so that they can consult with agriculture experts and scientists directly and explore its library to know about crops, crop rotation, land preparation, water management, disease control and other agricultural activities.

IFFCO Kisan is an Indian agricultural farmer facilitation app which helps Indian farmers to access agricultural information related to their needs. Our app provides agriculture facility, latest market prices, weather forecast, agricultural advice, agriculture, animal husbandry, horticulture, buyer and seller forum and all agriculture related news and government schemes and best practice tips related to agriculture. It is most comfortable for Indian farmers to understand in their own language.



