

Project Details: NAeG/14-15/00032

Project id -	NAeG/14-15/00032
Name of The Project	AGRISNET-Farm Crop Management System (FCMS)
Category of Award Applying for	Incremental Innovations in existing projects
From :	26-06-2012
To :	26-06-2014
Year of National e-Governance Award	2011
Summary/Objective of the project	<p>Tamil Nadu agriculture is an age old enterprise specialized by its seven Agro-climatic zones. About two thirds of the population either directly or indirectly depend on agriculture sector for their sustenance. The state has varied rainfall pattern and diverse cropping situations. Area subjected to irrigation water challenge is almost half of the total area under cultivation which poses a very big challenge in agricultural extension service delivery and production of crops. The present extension system undergone transformation over the last five decades since independence viz., Community Approach, Farm family approach, Broadening the scope of Agricultural Extension and Group approach. The focus of extension was shifted from intensive approach to integrated approach at the beginning of 21st century. AGRISNET project was launched during 2010 as a decision support tool in agricultural extension which was then conferred the best portal in Agriculture Award in the entire Nation during 2011. On this platform, incremental innovation, Farm Crop Management System (FCMS), conceived and implemented resulting in Paradigm shift from area based to farm based. Keeping Individual farm asset mapping, soil health mapping, Micro agro-climatic zone and zonation with groups of homogeneous Micro Agro Climatic Zones based on Rainfall including the factors of production land and water, Crop Matrix is defined to each zone and bouquet of options are provided to farmers. Crop Plans are developed online to individual farms on participatory approach. First of its kind in the entire Nation the Asset mapping is done in 72 lakh farm holdings. The Mobile Number of the farmer and the survey number of the farm are obtained for tracking the farm activities and advise. Soil Health monitoring is mandatory in the present system. Knowing the soil nutritional status crop plan development, farm-wise input requirement/supply assessment is done precisely. Micro Agro-Climatic zonation is a prime concept in which each group of villages/blocks within the district are further divided into smaller groups based on the Land type, Source of Irrigation and Rainfall. Once when the asset mapping and soil health mapping done to individual farm, with the crop matrix and zonation of the a village Crop Plans are developed by the Extension worker on Participatory approach. These crop plan suggest on what crop to be grown, the variety, method of cultivation, etc., Also with the type of cultivation, the quality input requirement are calculated. The input requirement is intimated to the agencies of that Block for positioning of inputs in advance. The extension workers Monitor the Crop Health Continuously using the customized Android application loaded in the Tablet PC during the crop growth stages viz., Schedule visit, Pest & Disease monitoring, Bio-metric observation, Harvest and Yield. Village-wise information on yield projections at various stages of crop generated through FCMS are automatically forwarded to Agricultural Market Intelligence and Business Promotion Cell (AMI&BPC) for sending market related advisories to the farmers. Comprehensive Input Supply Management System (CISMS) is launched in the state in all the 791 Agricultural Extension Centers and the benefit accrued are tracked in the Online Benefit Tracking System. Knowledge dissemination through Know-it-yourself concept was achieved through Touch Screen Kiosks where the specialized decision support system Crop Doctor developed by TNAU is loaded and PICO Mini projectors are deployed at the block level making extension delivery precise to the farm level. Farmers are advised at each stage through Text and Voice Advisory as a Last Mile Connectivity using mobile technology. By implementing these innovative ICT tools Tamil Nadu state is Marching towards Second Green Revolution.</p>
Beneficiary of the project	<p>The client base in Agriculture is farm holdings which is about 81.18 lakhs and the needs and expectations during the entire period of cropping is multi-directional viz., quality inputs, best practices, latest technologies, weather advisories, pest and disease management, welfare schemes, markets and market information. So far 72 Lakh farm families Asset database have been uploaded and fine-tuned. 67 lakh Soil samples collected, analyzed and test results available online. Crop matrix for all the districts developed, by duly identifying the zones based on Soil type, Irrigation</p>

source and Rainfall. Individual Crops plans have been developed in consultation with the farmers for each farm. 10 lakh such crop plans were developed for Kharif 2014 cropping season. 2319 Nos of tablet PCs have been supplied to the field staff. An exclusive customized Android application is developed as a package and is deployed to the Tablet PCs. Each district is having a separate package containing the database of that particular district. This tablet PCs are capable of working offline. The Tablet PCs are 3G, GPS and GPRS enabled. Using these tablet PCs the Extension workers monitor the crop health continuously through out the crop growth period. The data available online is being analyzed by the Marketing Department. Suitable market advisories are being sent to the farmers. 32 districts, 385 blocks are provided with computers and accessories. Internet connection provided utilizing the services of BSNL. All the 791 Agricultural Extension Centers are provided with computer and network capabilities so that they can handle the input supply system. Cropped area assessment, Yield monitoring, Food grain production monitoring, fallow land assessment, etc., are all done online to benefit timely decision making at the appropriate level. 154 office including Soil Testing Labs, Seed Certification offices are also included in the network.

Details of Project Head

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[Document proof of previous award](#)

Supporting documents:-

[Award Specific Form](#)

[Self Certification by the Project Head](#)