

## Salinity Expert: Mobile enabled ICT based Decision Support System for Sodic Agroecosystems

With an initiative towards digital India to fast track the dissemination of farmer friendly technologies under salt affected agro-ecosystems, bridging the barriers of time and space and aim to doubling the farmers' income by 2022, a mobile app '*Salinity Expert*' was developed under the Farmer FIRST project entitled "Empowering farmers through selective interventions in salt affected agro-ecosystem of Ghaghar Plains". This app was launched by Shri Radha Mohan Singh, Hon'ble Union Minister for Agriculture and Farmers Welfare during the Golden Jubilee Kisan Mela organized by ICAR-Central Soil Salinity Research Institute, Karnal on March 10, 2018. Agriculture Minister suggested that mobile enabled Information and Communication Technologies can complement the role of extension services in disseminating the research outputs to the end users more widely and swiftly.



The application can be freely downloaded from the Google play store mentioning '*Salinity Expert*' or <https://play.google.com/store/apps/details?id=com.dev.cssri.farmerfirst&...> This is a user friendly app available in hindi version compatible to Andriod phone with features

- Knowledge based digital compendium including management practices for rice, wheat and mustard crops under salty environments right from sowing to harvesting
- User friendly query handler to raise queries either as text messages or in graphic/recorded form. The queries then will be attended by the administrator via message sorting, short message service, email etc.
- Aadhar/Mobile Login ID based digitization of soil health cards (SHCs) including farmer's basic information, soil fertility and water quality analysis
- Methodology and precautionary measures while taking soil and irrigation water samples
- Estimated gypsum requirement considering inherent soil sodicity (pH) and residual alkalinity in irrigation water (RSC) and their concomitant effect on crop yields (yield predictions)
- Digitization of soil fertility status and water quality maps of study domain under farmer FIRST project
- Updated agro-advisories and information pertaining to training programmes and other important events

