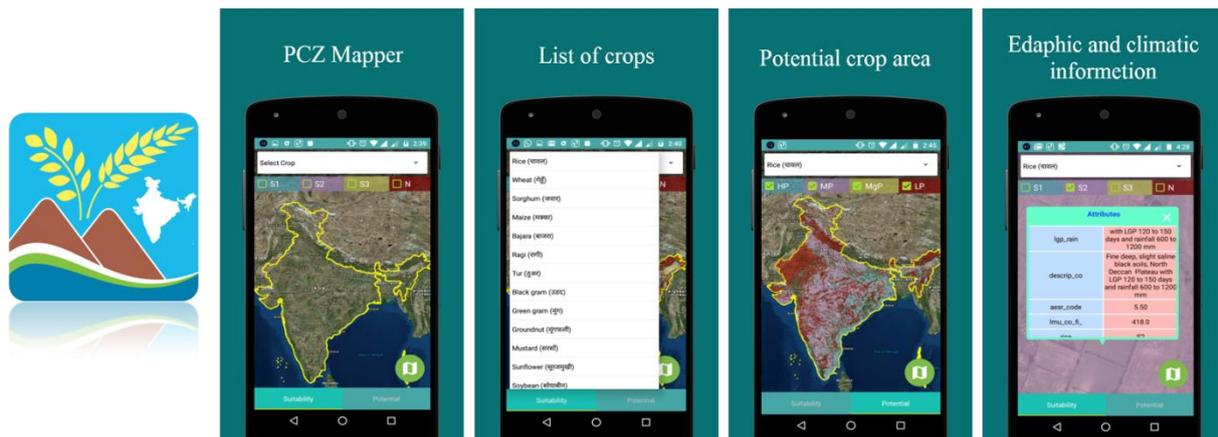


## Potential Crop Zone (PCZ) Mapper

ICAR-NBSS&LUP is engaged in resource based agricultural land use planning for improving livelihood of the farmers of the country; developed an android based mobile application titled Potential Crop Zone (PCZ) Mapper. This derives information from the Bhoomi Geo-portal (<http://nbsslup.in/bhoomi>; <https://ncog.gov.in/SIS>) and facilitates easy visualization, dissemination and sharing of database on crop suitability and potential crop zone of the country. PCZ mapper displays crop suitability in four categories i.e. S1 (highly suitable), S2 (moderately suitable), S3 (marginally suitable) and N (unsuitable). The suitability assessment programming is purely based on edaphic and climatological variables including rainfall and length of growing period. Further PCZ Mapper displays potential areas in terms HP (Highly potential), MP (Moderately potential), MgP (Marginally potential) and LP (Low potential) for different crop accounting the site specific crop suitability, long term acreage and yield of the crop defined as Relative Spread Index (RSI) and Relative Yield Index (RYI). User clients can also view the related information like soil region, physiography, sub physiography, landform, land management units etc. by clicking the area of interest. The App can locate the user's location on hierarchical drop down selection basis or else. The GPS enabled location tracking is also inbuilt in the App. The real time GPS based tracking allows the user to collect information while on the go. The App works both in English and Hindi version. The App will benefit the farmers, planners, executors, researchers and other stakeholders. This will be very useful in transfer of technology from lab to land through application of right technology in well-defined land management unit. The App will be updated at regular intervals based on the technological developments as well as user's feedback. This indeed will be the part of Digital India platform. Some components of the App are displayed below:



This App can be downloaded from the Google play store at free of cost:

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

(copyright diary No. 595/2018-CO/SW)

Research Team for PCZ Mapper : Dr. S.K. Singh, Dr. V. Ramamurthy, Dr. S. Chattaraj, Mr. V. Thakare, Dr. N.G. Patil and Dr. R.P. Yadav