

## **Digital Agriculture- Krishi Unnati Yojana formerly National e-Governance Plan-Agriculture (NeGP-A)**

Under National e-Governance Plan-Agriculture (NeGP-A), for FY 2020-2021, two proposal for digital agriculture amounting to INR 317.00 Lakhs to be implemented in the State of Punjab had been submitted to GoI. The proposals were approved by GoI and presently the following projects are being implemented in State of Punjab:

1. **Punjab Agricultural University, Ludhiana** proposal for "Precision Irrigation in Major Cropping Systems of Punjab using Artificial Intelligence and Sub Surface Drip System" worth 216.70 Lakhs; and
2. **Punjab Remote Sensing Centre, Ludhiana proposal** for "Developing Crop and Soil Digital Algorithms for Crop Growth Monitoring, Crop Yield and Soil Quality at Farm Level using Remote Sensing, GIS and Machine Learning Techniques" worth Rs. 99.78 Lakhs)

The following are goals & objectives under NeGP-A :-

### **PAU, Ludhiana**

- Precision irrigation using AI, IoT and SSDI will result in realization of potential yield through elimination of plant water stress.
- Elimination of over use of irrigation water & arresting fall in GW table.
- Development of Decision Support System (DSS) for water saving irrigation schedules.

### **Punjab Remote Sensing Centre (PRSC)**

- Agricultural planning & policy design.
- Decision Support System created would be used for Crop Diversification.

For the first year ie. FY 2020-2021, an amount of Rs 73 lakhs was released to PAU (55 lakhs) and PRSC Ludhiana (18 lakhs) including State Share. The amount released was in last week of March, 2021 therefore the same could not be utilised in time. The same were revalidated for FY 2021-22 by GoI.

Presently these projects are being executed by the respective agencies. **JDA (HG) is the nodal officer of the project.**

Further, during FY 2021-22, a project proposal titled "**Estimation of Groundwater Unit Draft and Water Budgeting in Different Agro-climatic Regions of Punjab using Internet of Things and Satellite Remote Sensing**" of 554.22 lakhs for three years has been submitted to GOI for approval on 1st December, 2021

The two projects are being implemented in the State. Further, Punjab Agro has submitted a new project which has been approved for first year.