

Krishi Integrated Command and Control Centre (ICCC)

written by iasexam.com | 28/03/2024



Context

Recently, the Ministry of Agriculture & Farmers' Welfare (MoA&FW) has inaugurated a **Krishi Integrated Command and Control Centre (ICCC)** at Krishi Bhavan in New Delhi.

About Krishi ICCC

- The ICCC is a tech-based solution involving more than one IT applications and platforms, which is designed to assist in making informed decisions.
- The centre is housed in the MoA&FW, which is responsible for legislation, policy formation, and implementation of initiatives in the agriculture sector.
- The ICCC makes use of state of the art technology such as **Artificial intelligence (AI)**, remote sensing, and **Geographic Information Systems (GIS)** to collect and process large amounts of granular data.
- The ICCC uses structures along with the **Krishi Decision Support System (DSS)** to collect micro-level data, process it, and present the macro picture.

Working of Krishi ICCC

- The AI machine learning-based system will identify a farmer through his/ her mobile number or Aadhaar.
- Then, the system will match it with the farmer's field data received by land records, historical crop sowing information from the crop registry, climate information from **IMD**,

and so forth.

- It will then generate a customised advisory in the local language of the farmer. For this, the system will use the [Bhashini](#) platform that allows translation into several Indian languages.

Information provided by the Krishi ICCC

- On 8 large, 55-inch LED screens established on the ICCC, where one could see information on –
 - Temperatures, rainfall, wind speed, crop yields, production, drought state of affairs, cropping styles (geographic region-wise and year-wise) and production estimations.
 - In graphical/ map, timeline, and drill-down format.
- One can also see –
 - The relevant trends (periodic and non-periodic), outliers, and **Key Performance Indicators (KPIs)**, and
 - Receive insights, signals, and feedback on agriculture schemes, programmes, projects, and initiatives.
- If needed, farmer beneficiaries can have interaction directly with officials or the Minister through video conferencing facilities.

Significance of the ICCC

- The ICCC will enable complete monitoring of the agriculture sector by making available at one area geospatial data obtained from multiple sources, which includes –
- Remote sensing;
 - Plot-level records received through soil survey;
 - Weather information from the **India Meteorological Department (IMD)**;
 - Sowing records from [Digital Crop Survey](#);
 - Farmer-and farm-associated records from **Krishi Mapper** (an application for geo-fencing and geo-tagging of land);
 - Market intelligence records from the **Unified Portal for Agricultural Statistics (UPAg)**; and
 - Yield estimation facts from the **General Crop Estimation Survey (GCES)**.
- The included visualisation of the information will permit quick and efficient decision-making.

Way ahead

- The ICCC ecosystem can be linked with the Kisan e-mitra, a chatbot advanced for PM-Kisan beneficiaries and
- Can create an ecosystem based on which individual farmer-level advisories can be generated.

Source: [The Indian Express](#)

UPSC Mains Practice Question

Q. Discuss the significance of the Krishi Integrated Command and Control Centre (ICCC). Also highlight the working of ICCC . (250 Words)