

Krishi Megh

August 12, 2020

The Ministry of Agriculture & Farmers' Welfare has launched the Krishi Megh (National Agricultural Research & Education System-Cloud Infrastructure and Services). Launched by ICAR, Krishi Megh **integrates the ICAR-Data Centre at ICAR-Indian Agricultural Statistics Research Institute, New Delhi with the Disaster Recovery Centre at the ICAR-National Academy of Agricultural Research Management, Hyderabad.**

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The main features of the Krishi Megh are that **it is equipped with the latest AI / Deep learning software / tools kits for building and deploying of deep learning based applications through image analysis, disease identification in livestock,** etc. Krishi Megh is a new chapter in digital India enabling the farmers, researchers, students and policy makers **more equipped with updated and latest information regarding agriculture, research, education and extension** in digital form generated by ICAR institutes and State Agriculture Universities.

Features of Krishi Megh

- For meeting the services and infrastructure needs of digital agriculture of National Agricultural Research and Education System (NARES), the existing data centre (ICAR-DC) built during 2012 shall be **strengthened with cloud computing infrastructure.**
- NARES-Cloud Infrastructure and Services with its constituents ICAR-DC and ICAR-Krish Megh provide a **robust and dynamic platform to meet the growing IT needs of the NARES system with the deployment of mission critical applications** such as e-Office, ICAR-ERP, Education Portal, KVK Portal and mobile apps, ICAR

institute websites, Academic Management System, Alumni Portal, e-Courses of UG and PG level etc.

- Under NAHEP, the **out-reach of existing ICAR data centers is broadened** to cover the Agriculture Universities enabling them to host their websites and IT solutions.
- In the present COVID-19 situation, 24×7 availability of IT applications has made it possible to work from home as well as to collaborate with fellow scientists through video conferencing.
- ICAR-Krishi Megh at NAARM Hyderabad is synchronized with ICAR data center at ICAR-IASR and it has been built to mitigate the risk, enhance the quality, availability and accessibility of e-governance, research, extension and education in the field of agriculture in India.
- **NAARM, Hyderabad has been chosen as it lies in a different seismic zone** w.r.t. ICAR data center at ICAR-IASRI. Hyderabad is also suitable as skilled IT manpower is available along with other suitable climatic conditions such as low humidity level which is controllable in the data center environment.
- This new centre has latest AI/ Deep learning software/ tools kits for building and deploying of deep learning based applications such as **disease and pest identification using image analysis, detection of maturity and ripening of fruits through image analysis, disease identification in livestock** etc.