

e-Extension initiatives by ICAR

Initiatives by ICAR

- Rice Knowledge Management Portal (RKMP)
- Consortium for e-Resources in Agriculture (CeRA)
- KRISHI
- Mobile apps
- SMS services by KVKs
- National Initiative on Climate Resilient Agriculture (NICRA)
- Design of Micro Irrigation Systems (DOMIS)
- edalhan gyan manch
- Knowledge Innovation Repository of Agriculture in the North East
- Expert System for Maize
- Expert System on Wheat Crop Management
- Expert System on Seed Spices
- CaneInfo
- Technologies & Products for Commercialization -Animal Science

RKMP (www.rkmp.co.in)



- Vision:** To serve a wide range of stakeholders and help in better planning to realize higher productivity & production of rice through improved knowledge and skill from the portal
- The Extension and Farmers domains provide production know how, package of practices, FAQs etc., in English and local languages.
 - Caters to information needs of exporters and farmers through the trade information system.
 - Indexing of mandi prices from regulated markets (from Agmarknet)

Consortium for e-Resources in Agriculture (CeRA), November 2007

- Consortium of Agricultural Libraries under the ICAR for NARES Libraries (Members: 152)
- online accesses of select journals in agricultural and allied sciences to all researchers, teachers and students, policy planners, administrators and extension specialists in NARS through IP authentication

Objectives of CeRA

- To upscale the existing R&D information resource base of ICAR Institutions/ State Agricultural Universities comparable to world's leading institutions/organizations.
- To subscribe online journals/e-Resources and create e-access culture among scientists/faculty in ICAR institutions/Agricultural Universities.

KRISHI - Knowledge based Resources Information Systems Hub for Innovations in agriculture

Centralized data repository system of ICAR consisting of Technology, Data generated through Experiments/ Surveys/ Observational studies, Geo-spatial data, Publications, Learning Resources etc.

Objectives

- To develop knowledge repositories related to proven technologies, and publications;
- To create agricultural geo-portal for strengthening, visualization and analysis of spatial data;
- To develop agricultural knowledge portal to provide access and manage knowledge repositories.

Mobile apps

- Herbal Kisan :Detailed information for farmers, students, drug manufacturers regarding medicinal and aromatic plants cultivation techniques



Farm Calculator

Fertilizer Calculator: to Calculate exact quantity of fertilizers required per unit area based on recommendation or soil testing

Pesticides/Fungicides/Herbicides Calculator: Apply exact quantity of Pesticides/Fungicides/Herbicides with different active ingredients (a.i) to manage insects/diseases/weeds and minimize excess use

Plant Population Calculator: Calculate exact quantity of seeds for your field crops or plats required for unit area for your horticulture crops.

Seed Rate Calculator: Calculate exact quantity of seeds required based on test weight and germination of the seeds

Seed Blending Calculator: Calculate blending of seeds of marginal lots with high germination lots to avoid wastage of marginal seed lots according to Karl Pearson square method. This could be also used as wine blending calculator

Farm Calculators

NPK **PESTICIDE** **PLANT POPULATION**

N (Nitrogen) 40

P (Phosphorous) 20

K (Potassium) 20

Kg Lbs

NORMAL FERTILIZERS

WATER SOLUBLE FERTILIZERS

Combination 1

Urea : 87.0 Kg
SSP : 125.0 Kg

Farm Calculators

NPK **PESTICIDE** **PLANT POPULATION** **SEED RATE**

Enter Active Ingredient(AI)

60

Enter Recommended Quantity(g/L or ml/L)

2

Tank Volume(Litre)

15

CALCULATE

Quantity Required 50.0 ml or g

Farm Calculators

PESTICIDE **PLANT POPULATION** **SEED RATE**

Hectare

0.3

0.2

CALCULATE

Plant Population 166666.66/Ha

- **ICAR – Mushroom App:** Designed for Mushroom growers, Mushroom Entrepreneurs, Mushroom Researchers and students

Goal of Application

- To popularize mushroom cultivation and its nutritional & medicinal values
- To notify interested mushroom entrepreneurs for mushroom training
- To promote crop advisory to mushroom growers
- To provide information about newly developed mushroom technologies by ICAR-DMR

Crop Advisory sent to mushroom growers and can be saved for future reference.

SMS Broadcast Service by KVK

- Weekly alerts on weather, disease forecast and market information
- Alerts on important trainings and other programmes to the Farmers Clubs and SHG network under the KVK
- An efficient tool to disseminate development to farmers and empower them to face the challenge of an upcoming free market

e-Dalhan gyan manch

- ICAR-IIPR, Provides all the information about pulse crops and every related aspects of pulse farming in India
- The users can register themselves on this portal to get voice based mobile advisory services

KIRAN - Knowledge Innovation Repository of Agriculture in the North East

User platform instrument in harnessing the power NE region through dynamic partnership and convergence among the diverse stake holders.

Objective

- Create a knowledge and technology repository for NE region
- Foster linkage among partners and collaborate with state and regional organizations.
- Act as a catalyst to strengthen the existing institutional capacity through convergence and networking.
- Provide technology and development consultancy along with details of technology dynamics and kinetics.
- Programme sustainable agricultural developments in the region and provide support for future strategy formulation in research and extension.

Expert System on Seed Spices

- Provides the complete information about Seed Spice Production Management in the country
- Covers important Seed Spices namely Cumin, Fenugreek, Coriander, Fennel, Nigella, Dill, Ajowain.
- Advises on the basis of area, cultural and climatic conditions and other characteristics of farmer's interest
- Suggests the appropriate cultural practices like field preparation, fertilizer application, schedule of irrigation etc
- Guides in protecting the Seed crop from insects/diseases/weeds etc
- Provides solution to the problems faced by the farmers through online queries

Conclusion

- ICAR is the nodal agency for education-research and extension
- Knowledge generation institutions disseminate technology
- Innovations in methods of technology transfer is continuous process