

Information and Communication Technology (ICT)

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INFORMATION & COMMUNICATION TECHNOLOGY

ICT initiatives/applications/activities of the department of Agriculture:

A. AGRISNET www.apagrisnet.gov.in

The AGRISNET portal of department is enriched with technical information, schemes & subsidies and other services provided by the department of Agriculture for farming community in local language i.e., Telugu.

I. General Content available in portal

Package of practices of 18 important crops grown in AP, schemes & subsidies of the department & other related technical and agricultural information is made available in portal.

Latest information on events in the department, misbranded pesticides and weather based agro-advisories will be regularly updated in the portal and make available to farming community.

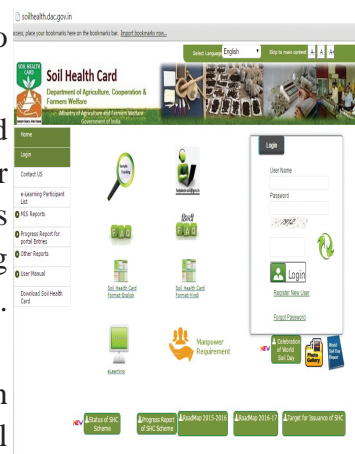
II. Interactive Applications

◆ Online Soil Health Card Generation System

Farmers can download soil health card online using unique No. allotted to each sample.

The upgrade of existing system is done wherein the soil test based recommendations are given to six suitable crops based on the soil test results for all the farmers including those available in Web portal. The GPS co-ordinates of points of soil test samples collected from farmers' fields are captured using GPS instruments. All the results are plotted on Google map at GPS co-ordinates. By clicking on the tag, Soil Health Card can be viewed on Google map.

A facility is provided to send the soil test based fertilizers recommendation as SMS to the farmers' mobile phone, as and when the results are entered by Soil Testing Lab officers. During this current year also, the SMS messages will be sent to farmers mobile.



More than 7.60 lakh samples will be collected and made available online during 2017-18.

◆ Online Input Licence Management System of Seeds, Fertilizers & Pesticides <http://www.agrionline.ap.gov.in:8080/OLMS/>

This is an application to provide licences online to the input dealers/ manufacturers of Seeds/Fertilizers/ Pesticides. Thereby the Dealers/Manufacturers can apply for licence freshly or renew and amend online. All licences will be generated or ammended online.

The Fertilizer services 31 in no. are already made available through Mee Seva Service from 2013. Further the remaining services under seeds and pesticides will also be made available through Mee Seva fold.

These applications will also be brought under Mee Seva online whereby user can avail the services directly without visiting Departments or Mee Seva centers. User will get SMS about the application status and also he can check the status online.

◆ **Fertilizer Monitoring System**

Fertilizer Monitoring System (FMS) is developed and pilot tested in Nellore district. The FMS captures the movement of fertilizer from the rake point till the retail dealers sell it to farmers.

In FMS system the recording of movement of fertilizers starts from allotment of fertilizers by district JDAs. Once the JDAs allot the fertilizers the concerned Manufacturer has to acknowledge the receipt of the allotment. After the manufacturer acknowledges the same will be viewed by District JDAs.

Further this process of allotment, acknowledgement and receipt continues till Wholesalers/Retail dealers. The dealers in the end update the stock position in the FMS daily in the evening. The Stock position can be viewed by officers of Office of C&DA and district JDAs. This system will be implemented in remaining districts in this financial year.

◆ **Pest Management & Crop Condition Reporting System**

This is provided with a facility to capture photos of pest and disease incidence in fields and upload in the Pest management System along with a note on symptoms observed. Based on this data the experts will provide the control measures or suggestions for the farmers to follow. Similarly other conditions of crop such as moisture stress etc. will be recorded and advisories will be delivered to farmers mobiles.

◆ **Polampilstondi Proceedings**

The Polam Pilusthondi programme is conducted for two days in a week by the Agricultural Department i.e., on Tuesday and Wednesday along with the officials of the allied departments and scientists of the Agricultural, Horticultural and Veterinary universities with the consent of the people representatives.

Visit schedule to be intimated in advance to the concerned peoples' representatives is made available online. There are Grama sabhas followed by Farmer-Scientist Interaction programme and field visit. These proceedings of Polampilustondi are recorded online by the Extension Functionaries to address the same on priority basis. Post follow-up module will be developed for monitoring the effectiveness of the program.

◆ **Chandranna Rythu Kshetralu Proceedings**

In order to enhance the productivity of these crops, special program involving grass root level extension functionaries and farmers is conducted - On Farm demonstrations (OFDs) with latest technological interventions and by close monitoring of higher officials is done. The farmers will also be exposed to these interventions at different crop growth stages to realize the advantage of these interventions in enhancing the productivity.

The monitoring reports and results or learnings of the demonstrations will be published online.

◆ **Integration with Webland Database**

All applications will be integrated with Webland database so that the data pertaining to agriculture information, schemes and subsidies of department etc. is made available for all farmers survey no. wise wherever applicable.

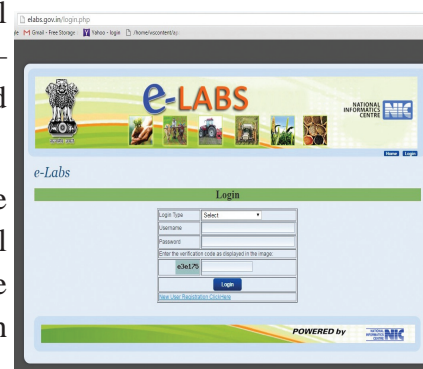
◆ **Vaddi Leni Panta Runaalu (Online Waiving of interest to Farmers Crop Loans)**

The process of payment of interest amount waived off on farmers’ crop loans directly to banks from the department of Agriculture is automated & is implemented.

The interest amount is credited from the account of Commissioner & Director of Agriculture to respective banks through Nodal branches based on details of principal loan amount repaid by the farmers.

◆ **e-Agrilabs**

An application to automate Fertilizers & Pesticides Testing Laboratories and Coding Centers through bar coding mechanism is initiated. The allocation of lab & testing of samples will be kept confidential under this application. Integration of SEEDNET – Automation of SeedLabs is under progress. The process will be implemented fully



During the second phase, the same will be integrated with Online Licence Management System to ensure the samples are taken from the all the licence holders. The stock reports will also be retrieved from the online Fertilizer Monitoring System which automatically gives details such as batch no., stock available etc.

◆ **Online Cropped Area Report**

Data Entry System for Weekly Crop Area Sown Particulars is developed to obtain statistics from Mandal Level/Village level functionaries online. The department has done crop booking successfully during Rabi-2015 and the same motivation will be continued for Kharif-2016.

◆ **Processing & Grounding of all schemes & inputs distribution**

For effective monitoring and grounding of all schemes and inputs distribution an online system will be developed for officers to upload the physical and financial progress of each component of a particular scheme. The targets and achievements can be monitored online. Steps will be taken up to initiate the development of this software.

◆ **HRMIS**

Human Resource Management and Information System (HRMIS) in establishment related services of agriculture department.

This can be utilized to computerize records of employees, like service register, payrolls, annual property returns, IT returns, seniority lists, transfers and promotions, pension modules, leave titles etc. so as to maintain transparency in the system.

The service registers of all employees in the state and district level will be made available in the system thereby performing online all the operations mentioned above. The software is yet to be launched in 2016-17.

◆ **Mobile Applications**

All web based applications will be brought under the fold of Mobile Applications wherein the users can enter the data through Android devices such as Tablets or smart phones.

B. Mee Seva Services :

The following services of the department of Agriculture are delivered through these Mee-seva centers

- Application for subsidy implements under Farm Mechanization (2 services)
- Payment of non loany farmers Crop insurance Premium under NAIS
- Online Licence Management System - Fertilizers Dealers/ Manufacturers (33 services)
- Further the services under seed and pesticides will be made available to dealers through Mee Seva.



C. e-office eoffice.ap.gov.in

A digital work place solution is launched by ITE&C dept of AP - an anywhere any time file movement software. e-office aims to support to governance by ushering in more effective and transparent inter and intra government processes.

The Departmental staff in the head office 144 in no. & districts 130 in no. were trained & got registered in the e-file system.

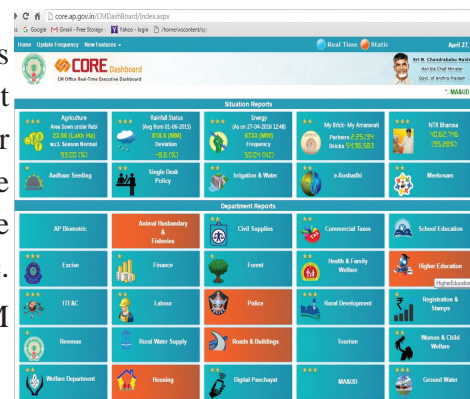
This system will be implemented in all the sections upto district level thereby achieving paperless office.

D. CM-dash board core.ap.gov.in

CM office Real-time Executive Dashboard (CORE) is a prestigious web based software of the Govt. of AP with integrated Management Information System (MIS) dash board for the Hon'ble Chief Minister to monitor key performance indicators, Kharif and Rabi crop coverage report & schemes like Janmabhoomi, Polampilusthondi reports, grievance redressal status, Natural Calamity reliefs, input subsidy payments etc.

The following applications that are to be incorporated to CM Dashboard are under progress.

- Fertilizer Stock Availability Report upto Village Level
- Daily Seed Stock Availability Report upto Mandal Level
- Physical & Financial Reports of Budget of various schemes
- Crop Insurance report of No. of farmers benefitted



All other online information will be integrated with CORE Dashboard subsequently.

E. Voice messaging - Green SIM Cards of IKSL:

The Green SIM Cards of M/s IKSL are supplied to 2900+ farmers. Five Voice Messages are sent daily through M/s IKSL @ 30 per month.

- Two on Agriculture (1 Zone specific & 1 District specific)
- One on Animal Husbandry
- A general one such as Horticulture/ Rural Health/ Weather/ Market Prices/ Agriculture dept. schemes etc.

F. Kisan Call Center 1551 (from BSNL Landline or Mobile)/ 1800-180-1551 (from Other Landline or Mobile)

The district specific escalated calls of **Kisan Call Center – 1551** related to the respective department officers registered in Kisan Knowledge Management System. The registration of all concerned officers will be done at district level and State level.

G. Farmers Portal of GoI: www.farmer.gov.in

Farmers Portal of GoI, www.farmer.gov.in is intended to be ‘One Stop Shop’ for all the farmers in the country.

The information on package of practices, crop/seed varieties, common pests, machineries, dealers etc. for the each Mandal of our state is updated. Various Inputs dealers/manufacturers details for seeds, fertilizers & pesticides, soil sample results of current and past five years will be updated in the portal.



H. Kisan SMS

Location specific messages will be sent to farmers either in English or Telugu on the crops selected by the registered farmers. About 15,00,000+ messages are sent to farmers through this portal. The complete registration of farmers will be taken up. The registration of all Extension Officers will be done in this portal.

I. Digital Signature Certificates

Digital Signature Certificate Keys have been issued to all notified authorities upto MAO level and are being used in online applications to digitally sign the documents. This will extended to all cadres in the department to carry on *e-office* system.

J. Connectivity

➤ APSWAN

G2GAP State Wide Area Network (APSWAN) is being established connecting the State Capital to all the 13 District Headquarters and Mandal Headquarters under National e-Governance Plan (NeGP) for all Government applications of voice, data and video services along with Video Conference facility.

Initially establishment of horizontal connectivity to district & sub-division head quarters is under progress.

➤ **National Optical Fibre Network (NOFN):**

NOFN infrastructure can be commonly utilized for delivery of multiple G2C services from different departments at village level. The speed is high enough (100 Mbps) to facilitate video conferencing.

In A.P., Parwada Mandal in Visakhapatnam district is identified as the pilot site for rolling out citizen centric services at Panchayat level.

Farmers Empowerment Program on ICT is taken up for 3 months through

DKCs @ 25 farmers per DKC from the month of December, 2014 on Government schemes & latest technologies in association with KVK, DRR, ANGRAU, MANAGE & allied institutions/dept.

➤ **Laying of Aerial Fiber under Phase-I of AP Fibre Grid Project**

Aerial fibre will be drawn leveraging the existing network of electric/other poles and the associated infrastructure elements to maximize the reach of broadband connectivity to mandal/village level by the Govt. of AP through Energy, I&I Department.

K. NeGP-A

Mission Mode Project of GoI, National E-Governance Plan in Agriculture

(NeGP-A) a component of Sub Mission on Agricultural Extension (SMAE) under National Mission on Agricultural Extension & Technology (NMAET) was introduced during last phase of the 11th Plan, to achieve rapid development of agriculture in India through the use of ICT, has been continued during 12th Plan as a part of SMAE.

The Desktop systems along with UPS & printers will be supplied to SHQ, District Head Quarters, 170 ATMA Blocks & ANGRAU by the Government of India under this plan.. Establishment of one Training Center for every five districts will be done under this programme.

Formation of District NeGP-A Implementation Team (DNAIT) under the chairmanship of District Collector/ Magistrate which will be responsible for implementation of the Scheme at the district level will be done so as to implement NeGP-A in the districts.

The full details of NeGP-A can be accessed from the following link.

<http://agricoop.nic.in/Programmescemes.aspx>