Role of innovation platforms & participatory research in agricultural development in India

Dr Randhir Singh, ADG (Ag.Extension)
Indian Council of Agricultural Research

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Agricultural Extension System

Four major components of the Indian Agricultural Extension System

1. Agricultural extension service with the state governments (Field Extension)

2. Extension education system of ICAR and SAU system (Frontline Extension System)

3. Extension programme of input industries in public and private sectors and NGOs, and

4. Special rural development programmes of the central and state governments
11 ATARIs- & 682 KVKs

- TA&D for its Application and Capacity Development

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>On Farm Trials</td>
<td>29805</td>
</tr>
<tr>
<td>Frontline Demonstrations</td>
<td>129678</td>
</tr>
<tr>
<td>Farmers Trained</td>
<td>1321000</td>
</tr>
<tr>
<td>Extension Personnel Trained</td>
<td>142000</td>
</tr>
<tr>
<td>Participants in extension activities</td>
<td>19868000</td>
</tr>
<tr>
<td>Production of Seed (t)</td>
<td>33900</td>
</tr>
<tr>
<td>Planting Material Produced</td>
<td>82031000</td>
</tr>
<tr>
<td>Livestock strains and fingerlings produced</td>
<td>65538000</td>
</tr>
<tr>
<td>Soil, water, plant, manures samples tested</td>
<td>637000</td>
</tr>
<tr>
<td>Mobile agro advisory</td>
<td>15522000</td>
</tr>
</tbody>
</table>
LINKAGES OF KVKs WITH OTHER ORGANIZATIONS

ICAR
- Guidelines

ATARIs
- Planning, Monitoring, Funding

Host Instt.
- Implementing KVK

SAUs/ICAR Instt.
- Technological back stopping

Krishi Vigyan Kendra (KVK)
- SAC meeting
- Extension Activities
  - Training
  - Demonstration
  - Trials
  - Farmers fair/Exhibition
  - Gosthies/Field days
  - Distt level interface
- Diagnostic & Advisory
  - Soil, water & plant testing
  - Location specific & demand driven advise
  - Strategic Research & Extension Plan
- Input related services
  - Seed production & its sale
  - Planting materials
  - Vermiculture
  - Fingerlings

Development departments (Agri, Horti, Livestock, Fisheries)

Cooperatives/ Federations (NABARD, KRIBHCO, IFFCO etc)

NGOs/Farmer’s Organizations/ Federations/ SHGs /FIGs

Farmers/ Farm women/ Rural Youths
### Key Programs

- **ARYA project** in 25 KVKs of 25 states with additional 75 more KVKs
- **Mera Gaon Mera Gaurav:** Scientists of ICAR institutes/AUs have adopted 13500 villages
- **Farmer FIRST:** 52 projects by ICAR institutes/SAUs covering 45,000 farm families
- **National Initiative on Fodder Technology Demonstration (NIFTD)-** 100 KVKs
- 600 Skill training for 12000 rural youth by 250 KVKs
- **Climate Resilient Initiatives at 121 KVKs**
- **Tribal area focus program at 125 KVKs**
- **Pulses seed hubs in 97 KVKs**
NEW INITIATIVES
Value Addition and Technology Incubation Centers in Agriculture (VATICA)

3 Models

✓ Establishing in KVK Premises and operated for incubation and skill development.
✓ Establishing in KVK Campus and outsourcing to group of Entrepreneurs to operate for incubation, skill development and partial commercial terms to operate the unit sustainably.
✓ The unit is to be given to FPO or any private entity with one time grant of RKVY to operate on commercial lines

- 100 VATICA centers
- Funding
- Revolving Fund and one time grant of RKVY
- Estimated budget: About 2 Crores
Nutri-sensitive Agricultural Resources and Innovations (NARI)

- Food Security must lead to Nutritional Security
- Focus on gender empowerment & nutrition
- Demonstrations and capacity development to promote nutrition-sensitive agriculture and gender mainstreaming
- Interventions on family farming, linking agriculture to nutrition, skill development among women and youth, bio-fortification of locally available food, round-the-year dietary pattern, nutri-thali, Nutrition Smart villages, etc.
- 100 KVKs @ 2.0 lakh/KVK under Revenue for 2 years
Interventions in Tribal Areas

125 KVKs: TSP Districts

- Seeds of Cereals, Oilseeds, Pulses and Horticultural and fruit crops etc.
- Storage bins, Spray machine& small tools & Poultry, fish production
- Goatry, buck
- 5500 genetic resources identified
Knowledge Systems and Homestead Agriculture Management in Tribal Areas (KSHAMTA)

- Documentation and Validation of the traditional agriculture knowledge systems existing in the 125 Tribal dominated districts of the country.
- Appropriate technological interventions and improvements in existing cropping systems so as to ensure livelihood and nutritional security.
- Provide modules for enterprise based technological interventions for economic development of niches areas.
- Undertake appropriate capacity building of the men and women folk to achieve the objectives.
- KVKs as the nodal point at the district level and It will be operationalised by pooling the funds available under the TSP in all ICAR Institutes.
- The programme will be implemented in convergence with the programmes of line departments.
FARM LEVEL IMPACT
Contributing to record pulse production of 22.14 million tons in 2016-17.
## Wheat Technology Interventions
### (2009-10 to 2013-14)

- **12 States**
- **67 KVKs and Indian Institute of Wheat and Barley Research, Karnal**
- **Yield gains (6 to 46%)**

### Table: Wheat Technology Interventions

<table>
<thead>
<tr>
<th>State</th>
<th>KVKs</th>
<th>Varieties</th>
<th>No. /Area(Ha)</th>
<th>Demo at Farmer field Yield (q/ha)</th>
<th>Farmer field Yield (q/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uttar Pradesh</td>
<td>13</td>
<td>DBW-17, CBW-38, K-307, HD-2932, HD-2967, DBW-39, PBW-550</td>
<td>795 (445.50)</td>
<td>46.27</td>
<td>41.00</td>
</tr>
<tr>
<td>Haryana</td>
<td>12</td>
<td>DBW-17, PBW-550, HD-2967, DPW-621-50</td>
<td>500 (309.40)</td>
<td>49.18</td>
<td>45.38</td>
</tr>
<tr>
<td>Bihar</td>
<td>10</td>
<td>CBW-38, K-307, DBW-39, HD-2985</td>
<td>540 (296.05)</td>
<td>40.39</td>
<td>35.77</td>
</tr>
<tr>
<td>Punjab</td>
<td>6</td>
<td>HD-2967, DPW-621-50, DBW-17</td>
<td>230 (189.2)</td>
<td>52.09</td>
<td>48.84</td>
</tr>
<tr>
<td>Jharkhand</td>
<td>5</td>
<td>CBW-38, K-307, DBW-39</td>
<td>1046 (175.54)</td>
<td>31.95</td>
<td>24.44</td>
</tr>
<tr>
<td>Maharashtra</td>
<td>5</td>
<td>AKAW-4627, MACS-6222, HI-8663</td>
<td>297 (206.15)</td>
<td>33.60</td>
<td>29.07</td>
</tr>
<tr>
<td>Rajasthan</td>
<td>4</td>
<td>HD-2967, PBW-550, Raj-4037</td>
<td>388 (226.57)</td>
<td>45.51</td>
<td>38.98</td>
</tr>
<tr>
<td>Gujarat</td>
<td>3</td>
<td>GW-11, GW-366, MPO-1215, HD-2932</td>
<td>273 (180.0)</td>
<td>40.20</td>
<td>36.39</td>
</tr>
</tbody>
</table>
Maize Revolution

- Single cross hybrids
- Production 20.23 mt
- 150 KVKs are working

### Increase in yield-Farmer’s field

<table>
<thead>
<tr>
<th>State</th>
<th>Area (ha)</th>
<th>Mean Yield (kg/ha)</th>
<th>% increase over state productivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. P.</td>
<td>135.2</td>
<td>6,598</td>
<td>95.9</td>
</tr>
<tr>
<td>Assam</td>
<td>3.6</td>
<td>5,419</td>
<td>NA</td>
</tr>
<tr>
<td>Bihar</td>
<td>5.1</td>
<td>6,075</td>
<td>132.2</td>
</tr>
<tr>
<td>Chhattisgarh</td>
<td>18.4</td>
<td>4,106</td>
<td>128.9</td>
</tr>
<tr>
<td>Gujarat</td>
<td>3.2</td>
<td>8,325</td>
<td>246.5</td>
</tr>
<tr>
<td>Jharkhand</td>
<td>4.5</td>
<td>4,005</td>
<td>158.6</td>
</tr>
<tr>
<td>M. P.</td>
<td>119.0</td>
<td>5,123</td>
<td>193.7</td>
</tr>
<tr>
<td>Maharashtra</td>
<td>28.0</td>
<td>6,819</td>
<td>173.8</td>
</tr>
<tr>
<td>Rajasthan</td>
<td>137.1</td>
<td>4,815</td>
<td>185.4</td>
</tr>
<tr>
<td>Karnataka</td>
<td>17.6</td>
<td>3,858</td>
<td>50.5</td>
</tr>
<tr>
<td>H. P.</td>
<td>1.6</td>
<td>3,227</td>
<td>38.4</td>
</tr>
<tr>
<td>J. &amp; K.</td>
<td>162.1</td>
<td>3,374</td>
<td>107.3</td>
</tr>
<tr>
<td>Odisha</td>
<td>26.0</td>
<td>6,135</td>
<td>176.1</td>
</tr>
<tr>
<td>Uttar Pradesh</td>
<td>40.5</td>
<td>5,307</td>
<td>136.7</td>
</tr>
<tr>
<td>Total</td>
<td>713.9</td>
<td>5,012</td>
<td>98.7</td>
</tr>
</tbody>
</table>
151 Climate Resilient Villages Established

Modules: NRM, Crops, Livestock, Fisheries, Institutional

- Resilient Interventions
- Adaption towards weather aberrations
- In-situ moisture conservation practices.
- Soil health cards-SSNM
- Tolerant crops.-varieties, breeds, fodder
- Water saving paddy systems
- Crop residue recycling
- Community nursery and planting dates
- Farm machinery with CHC

Climate Vulnerabilities addressed

- Custom hiring of farm machinery (revenue Rs 8 lakhs)
- Demonstrations in 6803 farmers fields covering 3431 ha
- 722 training programs organized covering 27887
- Smart farmer certificates awarded to 4605 NICRA farmers
- Identified 27 climate resilient practices for up-scaling under NMSA

Scaling up in 5000 villages in Maharashtra due to success of NICRA Model
Crop diversification to cope with variable rainfall in scarce rainfall zone of Andhra Pradesh

- Frequent crop failures/ low productivity experienced by farmers in Maize and Cotton
- Short duration cultivar of Foxtail millet (cv Suryanandi) intercropped with Pigeonpea performed demonstrated as an effective & resilient alternative
- Seed multiplication at farmer level ensured sustainability of the practice

Climate resilient intercropping system Foxtail millet + Pigeonpea

- 60 % farmers
- 47% area
Ground Water Recharging

Technical support- KVK Bharatpur, Rajasthan
Institutional linkage: KVK - CRIDA, Hyderabad - state line Dept

Economic impact and Adoption:

- 95 tube well recharged (95% were successfully recharged) at a cost of Rs.10,000 to 12000 per tube well.
- Water made available to irrigate 272 ha land.
- Major crops in the rabi season viz. wheat, mustard, barley etc. minimized 90% of the yield losses due to availability of recharged ground water (8-10ft).
- KVK-Line Departments interface held for up-scaling the technology.
- Thus, nearby villages are also adopting the technology (Sitara, Sahenti, Mukundpura).
Bamboo Drip Irrigation an Innovative technique to save water
KVK Ri Bhoi, Meghalaya (Innovative Farmer- Shembhalang Khongjoh)

• The water is being refilled 2 to 3 times in a week.
• This irrigation method had covered 2500 Khasi mandarin plants that are 10 to 12 years old.
• New plantation was also done
• Jalkund was made at hill top to store water

Refilling of water in Bamboo Based Drip Irrigation
• **Institution:** KVK, a link institution between research & extension
• **Model:** Social Enterprise
• **Services offered:** Agri Doctor & Agri Pharmacy
• **Goal:** To meet
  – the farmers’ information and input demands,
  – on time, at competitive price, and
  – at one easily accessible place
• **Strategy:** Technology as well as input delivery
Entrepreneurship Development - ICAR-KVK, KANNUR

IMPACT OF VOCATIONAL TRAINING

Problem: Low income/ Lack of value addition
Cashew Apples (16 Kg./per 1 Kg. of nuts) are thrown away after taking nuts

An Unexploited material

KVK's Intervention

Farmers
- Identification of Potential Entrepreneurs
- Transforming
- Successful Entrepreneurs

Training & Post Training Assistance
- Technology
- Personality Traits
- Registration /License
- Purchase of Equipment
- Packaging & Labeling
- Product Launching
- Marketing & Advertising
- Follow up & Monitoring
- Constant Reassurance

Support System
- Institutions Assisting Entrepreneurs
- DIC
- Line Departments
- Banks
- NABARD

Outside Kerala
- Mumbai
- Goa
- Chennai
- Bangalore
- Karwar
- Davangere
- Andaman

Business

KVK trainee starts cashew apple processing unit

Staff Reporter
KANNUR: The Kannur Krishi Vigyan Kendra (KVK) at Panniyur here needs no better example of its success in offering training in various agriculture-related activities than the first-ever cashew apple processing unit in the district started by one of its trainees.

Tomychand Syriac, an enterprising young farmer from Vaniampara, near Thrissur, has started the cashew apple processing unit under the trade name Tomco.

THE HINDU

Sunday, Feb 10, 2007

Cashew Apple - Branded Products

Cashew Apple - Branded Products

Cashew Apple - Branded Products

Cashew Apple - Branded Products
Sultan Fish Farm Karnal- Farm to Plate

 Indoor Climatic Controlled Fish Farming System “RAS” Recirculatory Aquaculture System Technology installed at Sultan Fish farm,Karnal

Fish & Vegetables Growing Together

Value Added Fish Processing Unit
PROSPERITY THROUGH KADAKNATH REARING

- KVK Jhabua, MP, introduced Kadaknath poultry breed for tribals.
- Established hatchery at KVK under NAIP to meet demand.
- A unit of 100 birds is providing 95 man days of employment per year and income up to rupees one lakh per year.
- Number of tribal poultry entrepreneurs in the district has increased 5 to 493 in 2017.
- Migration of tribal youth reduced.
### Chicks Produced and Distributed Across States by KVK Jhabua

<table>
<thead>
<tr>
<th>Production Year</th>
<th>No. of chicks</th>
<th>States-wise spread of Kadaknath</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>32665</td>
<td>Madhya Pradesh-Jhabua, Alirajpur, Dhar, Indore, Ujjain, Badwani, Gwalior, Shivpuri, Sivani, Sagar, Sehore, Chhindwara, Devash, Jabalpur, Khargone, Betul, Balaghat</td>
</tr>
<tr>
<td>2015-16</td>
<td>29582</td>
<td>Chhattisgarh- Raipur, Kanker Rajasthan-Udaipur, Jaipur, Banswara, Churu, Sikar, Sri Ganganagar Maharashtra- Pune, Nagpur, Dhule, Osmanabad, Wardha, Sangli Uttar Pradesh- Gorakhpur, Jhansi, Merath, Barely</td>
</tr>
<tr>
<td>2016-2017</td>
<td>23657</td>
<td>Gujarat- Dahod, Anand Haryana, Kerala</td>
</tr>
</tbody>
</table>

### Kadaknath Spread in Chhattisgarh

<table>
<thead>
<tr>
<th>No. of districts covered</th>
<th>No. of villages covered</th>
<th>No. of chicks supplied by KVK</th>
<th>No. of farmers benefited</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>256</td>
<td>50463</td>
<td>493</td>
</tr>
</tbody>
</table>
## Innovation Platform partners

Sardar Harbir Singh (farmer), KVK Kurukshetra and CCS HAU, Hisar

### Address: Village Dadlu, District Kurukshetra, Haryana

### Description: Exemplary agricultural innovation Platform
Diversified agri-enterprises to raise farm income
Facilitated overall agricultural development of others
Recipient of several national and international awards

### Economic analysis of agri-enterprises undertaken by Sardar Harbir Singh

<table>
<thead>
<tr>
<th>Agri-enterprise</th>
<th>Seedlings (No. Lakh)@</th>
<th>Cost (₹ Lakh)#</th>
<th>G. returns (₹ Lakh)#</th>
<th>Net profit (₹ Lakh)#</th>
<th>B:C Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddy-Wheat rotation (2011-12 to 2015-16)</td>
<td>n/a</td>
<td>0.43 to 0.48</td>
<td>1.49 to 2.28</td>
<td>1.01 to 1.70</td>
<td>3.13 to 4.63</td>
</tr>
<tr>
<td>Paddy nursery (2015-16)</td>
<td>324</td>
<td>1.45</td>
<td>4.36</td>
<td>2.91</td>
<td>3.00</td>
</tr>
<tr>
<td>Tomato nursery (2011-12 to 2015-16)</td>
<td>27 to 57</td>
<td>8.10 to 19.38</td>
<td>13.50 to 31.35</td>
<td>5.40 to 12</td>
<td>1.62 to 1.72</td>
</tr>
<tr>
<td>Capsicum nursery (2011-12 to 2015-16)</td>
<td>24 to 36</td>
<td>9.60 to 18.00</td>
<td>22.50 to 36.00</td>
<td>10.50 to 18.00</td>
<td>1.75 to 2.50</td>
</tr>
<tr>
<td>Chilies nursery (2011-12 to 2015-16)</td>
<td>40 to 52</td>
<td>8.90 to 15.60</td>
<td>17.80 to 28.60</td>
<td>8.90 to 13.00</td>
<td>1.83 to 2.10</td>
</tr>
<tr>
<td>Cauliflower nursery (2011-12 to 2015-16)</td>
<td>16 to 35</td>
<td>3.20 to 7.50</td>
<td>5.20 to 15.75</td>
<td>2.00 to 8.25</td>
<td>1.71 to 2.10</td>
</tr>
<tr>
<td>Onion nursery (2011-12 to 2015-16)</td>
<td>420 to 910</td>
<td>5.80 to 8.25</td>
<td>9.80 to 14.75</td>
<td>4.00 to 8.75</td>
<td>1.69 to 2.46</td>
</tr>
<tr>
<td>Tomato crop (2011-12 to 2015-16)</td>
<td>n/a</td>
<td>0.67 to 1.05</td>
<td>1.80 to 2.90</td>
<td>1.12 to 1.85</td>
<td>2.67 to 2.93</td>
</tr>
<tr>
<td>Chili crop (2011-12 to 2015-16)</td>
<td>n/a</td>
<td>0.67 to 1.05</td>
<td>1.80 to 2.90</td>
<td>1.12 to 1.85</td>
<td>2.67 to 2.93</td>
</tr>
<tr>
<td>Poultry</td>
<td>125-250</td>
<td>0.50 to 1.00</td>
<td>0.95 to 1.80</td>
<td>0.45 to 0.80</td>
<td>1.80 to 2.00</td>
</tr>
</tbody>
</table>

#: Per ha in case of paddy-wheat rotation, tomato crop, chili crop
@: No. of words (not in Lakh) in case of poultry
Innovation Platform partners-
Sardar Harbir Singh (farmer) - Village Dadlu, District Kurukshetra, Haryana
with KVK Kurukshetra and CCS HAU, Hisar

Pictorial depiction of different agri-enterprises undertaken under this AIP

In 2015, the GOI launched a flagship project Paramparagat Krishi Vikas Yojna (PKVY) or Traditional Farming Improvement Programme with a budget of $47.07 million US Dollars.

The PKVY envisages supporting and promoting organic farming and improving soil health.

To encourage farmers to adopt eco-friendly methods of cultivation and reduce their dependence on fertilizers and agricultural chemicals and improve yields.

Most of the interventions in the area of organic farming are developmental in nature with little investment in organic agriculture research.
Crop Productivity under organic farming (Jodhpur) (@4.5t/ha manure, 493 mm rainfall)

1532 kg/ha

937 kg/ha

1873 kg/ha

Package of practices of organic mung bean and sesame production, developed at CAZRI - included in the state govt. POP

For popularization of organic farming –
- demonstrations of organic system management in rainfed village.
- Training programs and group discussions.
154 farmers and farm women participated and got firsthand experience of organic farming technologies.

Under PKVY scheme (state govt.) about 900 farmers of Luni tahseel visited and get training at Model organic farm, CAZRI, During- Jan.-March.2017
Organic Farming - Rajesh Farm Kaithal

- During 2007 started growing organic vegetables in 3.0 acre, now 16 acres (13 acres on lease @ 50,000/year)
- Grows vegetables as well as cereals
- Developed a total of 7 liquid products as growth promoter, insecticide, mosquito control, etc.
- Developed Bio-Pesticides: Kisan Sathi: Developed to control stem borer and larvae in rice and vegetables; and Kisan Biswas: Developed to control Bhura Tela, Kala Tela and Chepa
- Knowledge leader for 125 farmers across states
- Employment generation for 45 local youth
- Direct marketing of produce to consumers at higher price
- Farm developed for knowledge Exchange & Eco-tourism
- Haldhar Organic Award ICAR; Haryana Jawik Krishi Ratan Puruskar and many other awards
Organic farming practices – assessment in farmers fields (Medak, Telangana)

<table>
<thead>
<tr>
<th>Crop</th>
<th>Practice</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banana</td>
<td>Bunch feeding of Panchgavaya</td>
<td>Improvement in bunch size</td>
</tr>
<tr>
<td>Sugarcane</td>
<td>White grub management with soil application of <em>Metarhizium anisopliae</em> (bio-fungus)</td>
<td>Effective and long lasting control</td>
</tr>
<tr>
<td>Greengram</td>
<td>Foliar spray of liquid biofertilizers (Vermiwash 20%, Panchagavya 3%) at 15 days interval</td>
<td>Yield enhancement</td>
</tr>
<tr>
<td>Pigeonpea</td>
<td>Disease management with seed treatment with <em>T. viride</em> 10 g.+ FYM powder 30 g. per Kg seed as paste followed by soil application of 5 kg of <em>T. viride</em> +225 kg FYM + 25 kg neem cake per ha.</td>
<td>Decrease in wilt disease incidence</td>
</tr>
<tr>
<td>Pigeonpea</td>
<td>Spray of neem oil @2% and erection of 50 bird perches per ha followed by shaking the plants after flowering period</td>
<td>Yield increase due to pod borer management</td>
</tr>
</tbody>
</table>
Issue in Organic Farming

- Interactions between researchers and stakeholders (farmers, extension workers, consumers)
- Setting up research agenda, priorities and establish a program to address priorities
- Funding for research proposals
- Participatory technology development
- Client oriented production
- Dissemination and local adaptation of existing research results
- Access to information on organic farming and food systems
- Validated pest and disease control
- Capacity building of stakeholders
- Market and certification procedures
REACHING TO FARMERS
Perundurai Groundnut Farmers Producers Company, Erode, TN

- Mentored by KVK, Erode, Registered in 2015 under Company Act, Membership – 540 (420 men and 120 women)
- Current share capital mobilized from Members – Rs.34.20 lakh
- Capital received from NABARD – Rs.4.20 lakh
- Major functions - Value addition of Groundnut and its bye products

Nachalur Farmers Producers Company, Karur, TN

- Paddy, Bengal Gram & Soybean in 40 villages & 800 members
- Bulk input supply to member farmers under direct dealership from IFFCO, and other major agro-chemical dealers
- Seed processing unit established with Rs.20.0 lakh support from NABARD
- Custom Hiring Centre with assistance from NABARD including power tillers, paddy transplants and weeders
WOMEN GROUP – ‘KRISHI SAHAYI’
- A work force for farm mechanization in paddy through custom hiring

By ICAR-KVK, MALAPURAM

**Background:** Drastic decline in paddy area

**Reasons**
- Labour scarcity
- High wages
- Low price for paddy

The success of KVK model made the district panchayat to launch the fallow free Malappuram project for activity group formation in 35 panchayaths

At farmer level, the cost of transplantation was reduced by 40%, harvesting by 80% and net income increased by Rs.8000/ha.

**KVK Intervention**
Formation of trained activity group to take up all mechanized operations in paddy on custom hiring through registered society ‘KRISHI SAHAYI’ benefiting 170 farmers every year.
ICTs a medium to reach last mile

- Web-based mobile advisory to farmers
- Research Institutes and AUs support
- 130 lakhs farmers

Krishi Vigyan Kendra (KVK) Portal
http://kvk.icar.gov.in

- Websites: 366
- Video clips developed: 30,777
- E-publications: 666
- CDs distributed: 3520
- No of farmers linked through mobile with KVKS: 1387827

Kisan Call Centre (1800-180-1551)
Community Radio Station

Mobile Apps in local languages in KVKs
Thanks