

PROCEEDINGS

Annual Action Plan & Natural Farming Workshop

(KVKs of Maharashtra and Goa)
YCMOU, Nashik, 13- 14 March 2024



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Guidance by

Dr. U. S. Gautam, DDG (AE)
Dr. R. Roy Burman, ADG (AE)

Published by

Director, ICAR-ATARI, Pune

Edited by

Mr. Tushar Athare
Dr. Rajesh T.
Dr. Shakir Ali Syed
Dr. S. K. Roy

Compiled & Assisted by

Ms. Aarti Onkar Patole
Mr. Mahesh Bhalchandra Jadhav
Dr. Anita Deshmukh
Ms. Supriya Suresh Patil
Mr. Ganesh Gulabrao Chaware
Dr. Sneha Suresh Patil
Ms. Pratibha Surwade
Ms. Priyanka Rajendra Bhalerao
Mr. Santosh Nagargoje
Ms. Neha Shivaji Salunke

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Introduction

In 1979, the Zonal Coordination Unit (ZCU) was established by ICAR at 08 different locations in India to oversee and manage technology transfer projects and activities. These ZCUs were later upgraded to Zonal Project Directorate (ICAR-ZPD) in March 2009, and then further upgraded to ICAR-Agricultural Technology Application Research Institute (ICAR ATARI) in July 2015. In order to enhance the monitoring, coordination, and review of the KVKs, three new ATARIs (Pune, Guwahati, and Patna) were sanctioned in 2015 and began their operations on 3 April 2017.

The states of Maharashtra and Goa are under the jurisdiction of Zone-8 ATARI Pune, which includes a total of 52 KVKs. Among these, 50 KVKs are located in Maharashtra and 2 in Goa State. The distribution of KVKs based on states and host organizations is detailed in the accompanying Table.

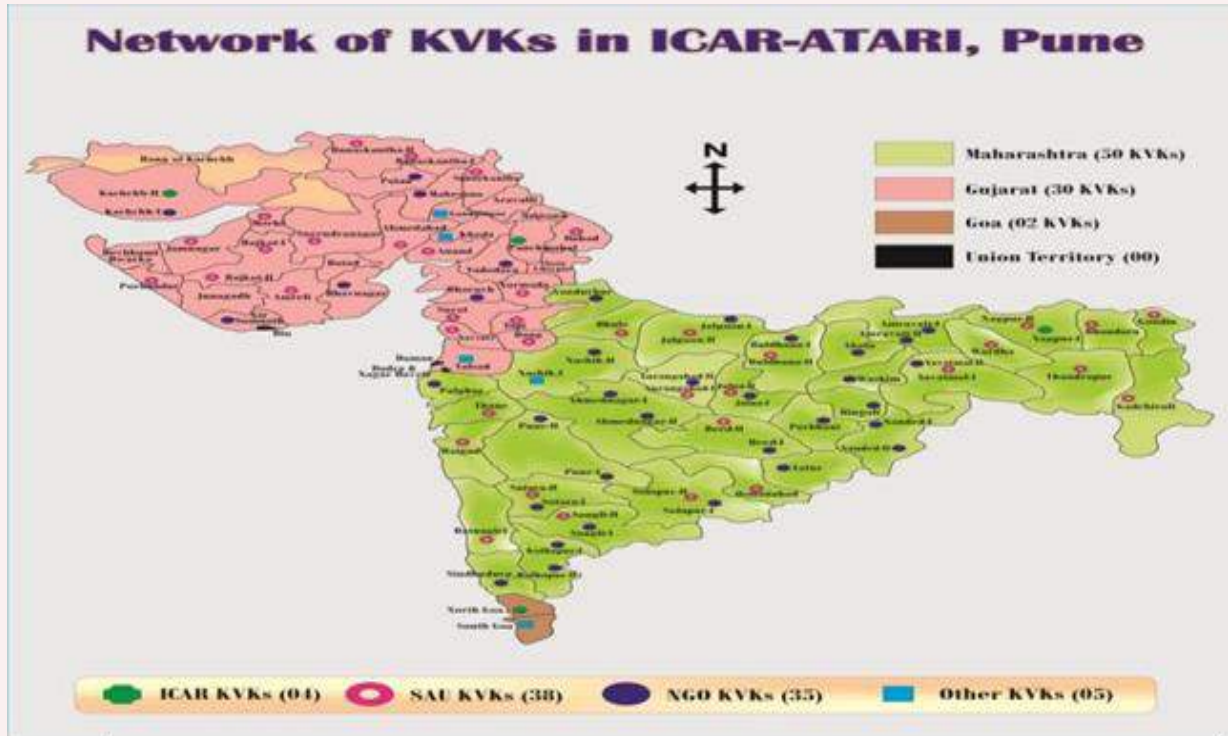
State	Host Organizations						Total
	SAUs	NGOs	ICAR	DUs	OUs	SDA	
Maharashtra	20	28	01	-	01	-	50
Goa	-	-	01	-	-	01	02
Total	20	28	02	-	01	01	52

In Maharashtra sixteen Districts (Amravati, Ahmednagar, Pune, Nashik, Aurangabad, Buldhana, Nanded, Beed, Yavatmal, Solapur, Jalgoan, Satara, Jalna, Kolhapur, Sangli and Nagpur) have two KVKs. 5 New KVKs (Kolhapur-II, Jalna-II, Nagpur-II, Sangli-II and Thane) were established since the starting of ATARI Pune and site selection committee has visited to Silvassa KVK (Dadra & Nagar Haveli).

Krishi Vigyan Kendra

Krishi Vigyan Kendra, established in 1974 in Pondicherry, is an exemplary extension model at the district level. Developed and nurtured by the ICAR for the past four decades, it has become a frontrunner in the field. The KVK serves as a platform to showcase the latest technologies, enhance the capacity of various stakeholders, and lead the way in technology application. It plays a vital role in providing technological information and inputs, while also adopting participatory approaches in planning, implementing, executing, and evaluating these technologies. KVKs also focus on assessing and refining technologies to suit different agro-

climatic conditions. Following the core principle of experiential learning, KVKs provide training to extension personnel and offer flexible and customized syllabi based on the agro-ecological needs of different areas. Considering the diverse challenges faced by Maharashtra, and Goa, ranging from severe drought to water management, KVKs actively address these issues.



Agro-climatic Zones (ACZ) in Zone-VIII, Pune

There are 63 districts under the jurisdiction of Zone-VIII, Pune in which 52 KVKs of Maharashtra and Goa state are functioning. The coverage of KVKs under different agro-climatic zones is given in Table.

Table: Agro-climatic Zones in ATARI, Pune

State	Agro-climatic Zones (ACZ)	Name of KVK	No. of KVK
Maharashtra	Western Plateau and Hills Region	Ahmednagar-I, Ahmednagar-II, Akola, Amravati-I, Amravati II, Aurangabad-I, Aurangabad-II, Beed-I, Beed II, Buldhana-I, Buldhana-II, Chandrapur, Dhule, Hingoli, Jalgaon-I, Jalgaon-II, Jalna-I, Jalna-II, Latur, Nagpur-I, Nagpur-II, Nanded-I, Nanded-II, Nandurbar, Nashik- I, Nashik-II, Osmanabad, Parbhani, Pune-I, Pune-II, Sangli-I, Sangli II, Satara-I, Satara-II, Solapur-I, Solapur II,	40



		Wardha, Washim, Yavatmal-I, Yavatmal-II	
	West Coast Plains and Ghat Region	Kolhapur-I, Kolhapur-II, Palghar, Raigad, Ratnagiri, Sindhudurg, Thane	7
	Eastern plateau and hills region	Bhandara, Gadchiroli, Gondia	3
Goa	Western Coast Plains and Ghats region	North Goa, South Goa	2
Total			52

Activities of KVK

- To implement the mandate effectively, the following activities are envisaged for each KVK
- On-farm testing to assess the location specificity of agricultural technologies under various farming systems.
- Frontline demonstrations to establish production potential of technologies on the farmers' fields.
- Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.
- To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district.
- Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.

Host Organization wise KVKs

Sr. No	KVKs	Year of Sanction and Host Organization	Sr. No	KVKs	Year of Sanction and Host Organization
Maharashtra					
PDKV, Akola					
1.	Wardha	1976 -SAU	2.	Chandrapur	1999 -SAU
3.	Bhandara	2002 -SAU	4.	Gadchiroli	2004 -SAU
5.	Gondia	2004 -SAU	6.	Yavatmal-I	2004 -SAU
7.	Buldhana-II	2010 -SAU			
VNMKV, Parbhani					



8.	Aurangabad-I	1983 -SAU	9.	Osmanabad	2004 -SAU
10.	Beed-II	2010 -SAU	11.	Jalna-II	2018 -SAU
MPKV, Rahuri					
12.	Dhule	1983 -SAU	13.	Jalgaon-II	2010 -SAU
14.	Satara-II	2010 -SAU	15.	Solapur-II	2011 -SAU
BSKKV, Dapoli					
16.	Ratnagiri	1983 -SAU	17.		2004 -SAU
Rural Development & Research Foundation, Akola			Grammonnati Mandal, Pune		
18.	Akola	2010 -NGO	19.	Pune-II	2010 -NGO
Manjara Charitable Trust, Latur			Saint Namdeo Sevabhavi Sanstha, Hingoli		
20.	Latur	2005 -NGO	21.	Hingoli	2002 -NGO
Dr. Hedgewar Seva Samiti, Nandurbar			Shram Safayala Foundation, Amravati		
22.	Nandurbar	2002 -NGO	23.	Amravati-I	1995 -NGO
Shram Sadhana Trust, Amravati			Sindhudurg Zila Krishi Pratishthan, Sindhudurg		
24.	Amravati-II	1995 -NGO	25.	Sindhudurg	1995 -NGO
YCMOU, Nashik			Jeevan Jyoti Charitable Trust, Parbhani		
26.	Nashik-I	1994 -YCMOU	27.	Parbhani	1994 -NGO
D.Y. Patil Education Society, Kolhapur			Satpuda Edu. Society Jalgaon, Jamod, Buldhana		
28.	Kolhapur-I	1994 -NGO	29.	Buldhana-I	1994 -NGO
J.N. Instt. of Edn. Sci. & Tech. Research, Pokharni, Nanded			Shabari Krishi Pratishthan, Solapur		
30.	Nanded-I	1994 -NGO	31.	Solapur-I	1994 -NGO
SUVIDE Foundation, Washim			DRI, New Delhi		
32.	Washim	1994 -NGO	33.	Beed-I	1992 -NGO
Kalyani Gorakshan Trust, Pune			Agril. Development Trust, Baramati, Pune		
34.	Satara-I	1992 -NGO	35.	Pune-I	1992 -NGO
Pravara Instt. of Res. & Edn. in Natural & Soc. Sci., Ahmednagar			Vasant Prakash Vikas Pratishthan, Sangli		
36.	Ahmednagar-I	1992 -NGO	37.	Sangli-I	1992 -NGO
Marathwada Sheti Sahayya Mandal, Jalna			Satpuda Vikas Mandal PO Pal, Jalgaon		
38.	Jalna-I	1992 -NGO	39.	Jalgaon-I	1984 -NGO
Gokhle Edn. Society, Nashik			Richfield Agro-e-Research & Development Centre, Nashik		
40.	Palghar	1976 -NGO	41.	Nashik-II	2011-NGO
Mahatma Gandhi Mission, Aurangabad			Sanskriti Samvardhan Mandal, Sagroli, Nanded		
42.	Aurangabad-II	2011-NGO	43.	Nanded-II	2011-NGO
Shri Marutrao Ghule Patil Shikshan Sanstha, Newasa, Ahmednagar			Navsanjivan Shikshan Prasarak Mandal, Yavatmal		
44.	Ahmednagar-II	2011-NGO	45.	Yavatmal-II	2016 -NGO
Shri Sidhagiri Math, Kolhapur			ICAR-CICR, Nagpur		
46.	Kolhapur-II	2018 -NGO	47.	Nagpur-I	1994 -ICAR-CICR



Maharashtra Animal & Fishery Sciences University (MAFSU), Nagpur					
48.	Sangli-II	2019- SAU	49.	Nagpur-II	2019-SAU
50.	Thane	2021- SAU			
Gujarat					
NAU, Navsari					
1.	Dang	1985 -SAU	2.	Tapi	2004 -SAU
3.	Narmada	2006 -SAU	4.	Navsari	2006 -SAU
5.	Surat	2011 -SAU			
JAU, Junagadh					
6.	Jamnagar	2004 -SAU	7.	Amreli	2004 -SAU

Ongoing Research Projects and Activities: -

❖ National Innovations in Climate Resilient Agriculture (NICRA)

Two KVKs, namely Jalna-I and Nandurbar from ICAR-ATARI Pune, are participating in this project. Each KVK has selected 2 villages from NICRA and non-NICRA categories. In each village, 20 respondents have been chosen, resulting in a total of 80 respondents from both types of villages.

❖ Gender and Nutrition Mega Project “Assessing dietary diversity, consumption pattern and nutritional security in Nutri SMART Villages- A step towards vocal for local”

Total 36 KVKs of ATARI Pune out of which 29 KVK from Maharashtra and 01 KVK from Goa are selected for this research project. Each KVK will contribute one Nutrismart village and one Control village for the study. The main objective is to collect data and examine behavioral patterns between Nutrismart and Control villages in the initial phase. The second phase will focus on evaluating behavioral changes after providing training on preparing nutritive foods, distributing nutrition literature, and raising awareness about nutrition among women in selected households within the Nutrismart villages.

❖ Attracting and Retaining Youth in Agriculture (ARYA)

Under ICAR-ATARI, Zone-VIII, Pune there are 6 Centres operational Nagpur-I, Nashik-I, Osmanabad, Pune-II, Washim, and Solapur-I in Maharashtra. This project was started with the goal of motivating the unemployed rural youth with skill and associated support to work in on and off farm enterprises.

❖ Cluster Frontline Demonstrations

❖ **Cluster Frontline Demonstrations of Pulses under NFSM**

The Ministry of Agriculture & Farmers Welfare, Government of India sanctioned the Cluster Frontline Demonstrations of Pulses under NFSM 2023 in order to boost pulses production in the country. ICAR ATARI, Pune carried out the project focusing on key pulse crops such as pigeon pea, chickpea, black gram, horse gram, cowpea, and green gram in specific districts with the help of respective KVKs in Maharashtra in 2023.

❖ **Cluster Frontline Demonstrations of Oilseeds under NFSM**

The Government of India, Ministry of Agriculture & Farmers Welfare approved the Cluster Frontline Demonstrations of Oilseeds under NFSM 2023 to boost oilseed production in the country. In collaboration with ICAR-ATARI, Pune, the project focused on crops like groundnut, sesame, soybean, castor, linseed, safflower, and mustard, in chosen districts of Maharashtra, carried out by the respective KVKs in 2023.

❖ **Farmer FIRST Project**

The Farmer FIRST as a concept of ICAR is developed keeping farmer in a centric role for research problem identification, prioritization and conduct of experiments and its management in farmers' conditions. The emphasis is on the farmer's Farm, Innovations, Resources, Science, and Technology (FIRST). The Farmer FIRST project has been ongoing since October 2016 at MPKV, Rahuri centers under Zone VIII.

❖ **District Agro Met Units (DAMU) Project**

In 2023, Under ICAR-ATARI Pune, 10 KVKs (Maharashtra-11 and Goa-01 KVKs) were operational under DAMU Project.

❖ **Nutri-Sensitive Agricultural Resources and Innovations (NARI)**

The 52 KVKs in Maharashtra and Goa are working towards nutri-sensitive agriculture. Various activities like awareness camps, training sessions, and exhibitions have been conducted for the farmers, farm women, and Anganwadi workers. Kitchen gardens, Poshan Vatika, and nutrition gardens have been established on the KVK campus as well as in several villages under KVK control.

❖ **Tribal Sub Plan (TSP)**

Eleven KVKs are involved in the Tribal Sub Plan (TSP) project, which arranges required operations in tribal areas for the benefit of farmers. Special training programmes on quality seed production in various crops; farmers' participatory seed production activities; distribution



of quality seed, seed storage structures, crop protection equipment & small farm equipment; demonstrations, exhibitions and exposure visits were instituted by varied cooperating centres benefiting tribal farmers.

❖ **Agriculture Drone Project (ADP)**

The Union Ministry of Agriculture and Farmers Welfare under “Sub-Mission on Agricultural Mechanization” (SMAM) has sanctioned 300 drones to various ICAR Institutes, SAUs and KVKs at national level. Under this project Rs. 10 lakhs grant is given for purchase of one drone. ATARI Pune has been sanctioned 40 drones, includes 07 to SAUs, 23 to ICAR Institutes and 10 to KVKs. SAUs and KVKs are allotted 1 drone each, whereas ICAR Institutes are given two drones.

❖ **NCDC Implementation of Central Sector Scheme for Formation and Promotion of 10,000 FPOs by KVKs**

The Ministry of Agriculture & Farmers Welfare under the Government of India has launched the CSS Formation and Promotion of 10,000 FPOs under the Co-operative Societies Act. This initiative is currently underway in six blocks across four KVKs from ATARI Pune. These six blocks (Karad, Satara, Malshiras, Pandharpur, Shirol, Hatkangale) represent four KVKs (Satara-I, Satara-II, Kolhapur-I, Solapur-II) in Maharashtra. The project aims to bolster the economic stability and market connections of farmers to ultimately increase their income.

❖ **Kisan Sarathi Portal**

Kisan Sarathi is a platform developed by ICAR that provides agricultural resources, technology hub interface, and auto-transmission of information. It is driven by the Interactive Information Dissemination System (IIDS) of the Digital India Corporation (DIC), under the Ministry of Electronics and Information Technology (MeitY), Government of India. "Kisan Sarathi" serves as an ICT-based solution aimed at creating an intelligent online platform to enhance agriculture locally with a broader national impact.

❖ **Mera Gaon Mera Gaurav (MGMG) Scheme**

In the Zone, ICAR institutes and SAUs were actively implemented MGMG scheme. Under this scheme, at institute level many groups of multi-disciplinary Scientists were constituted.

❖ **Out scaling of natural farming through KVK's**



“Natural Farming is a chemical-free traditional farming method. It is considered as an agro-ecology based diversified farming system which integrates crops, trees and livestock with functional biodiversity”- Niti Ayog. Natural farming is a system where the laws of nature are applied to agricultural practices. Krishi Vigyan Kendras work with the farmers and farm women to increase agricultural production. For that KVKs organize different types of Awareness campaign, training programme and demonstrations to increase knowledge with change of attitude and behaviour of farmers and farm women and to motivate for adoption of natural farming among the farmers. This year ICAR has made special efforts for promoting Natural farming, by introducing new project called as “Out scaling of Natural farming through KVKs”. It’s a pan India project that is running through 11 ATARIs and 475 KVKs all over India. ATARI Zone VIII is running this project through 18 KVK’s in 2 states viz. Maharashtra (17 KVKs) and Goa (1 KVK).

❖ **Special Project on Cotton**

Ministry of Agriculture & Farmers Welfare, Govt. of India has approved a special project on cotton entitled ‘Targeting technologies to agro-ecological zones- large scale demonstrations of best practices to enhance cotton productivity’ under National Food Security Mission (NFSM) for implementation during 2023-24. The project implemented through ICAR-Central Institute of Cotton Research (CICR), Nagpur in partnership with different seed and textile industry (Rashi, Rallis, Mahyco, Nuxiveedu, Kaveri, Ankur) as partners with extension support of KVKs in PPP mode in the identified clusters through value chain approach by collaboration with Ministry of Textiles. The project is being implemented by ATARI Pune in 18 KVKs which is 15 in Maharashtra and 3 in Gujarat state with the budget of Rs. 3.24 Crore. Under this project, KVKs organized Field day programmes, farmers’ trainings, kisan melas on Closer Spacing and High Density Planting System. Also awareness and technical guidance about how farmers can reduce the cost of plant protection and others inputs by using this Dada Lad technique is being created.

Maharashtra State

Maharashtra occupies the western & central part of India and has 720 km long coastline along the Arabian Sea and is also fortified naturally by Sahyadri and Satpuda mountain ranges. The State is surrounded by Gujarat to the north west, Madhya Pradesh to the north, Chhattisgarh to the east, Telangana to the south east, Karnataka to the south and Goa to the south west. For



administrative convenience, the State has been divided into 36 districts and six revenue divisions.

State economy: As per the advance estimates, during 2022-23 the State economy is expected to grow by 6.8 per cent and the Indian economy is expected to grow by 7.0 per cent. During 2022-23, the 'Agriculture & allied activities' sector is expected to grow by 10.2 per cent, 'Industry' sector is expected to grow by 6.1 per cent and 'Services' sector is expected to grow by 6.4 per cent for the State. As per the advance estimates, nominal (at current prices) Gross State Domestic Product (GSDP) for 2022-23 is expected to be ` 35,27,084 crore and real (at constant 2011-12 prices) GSDP is expected to be ` 21,65,558 crore. The Per Capita State Income for 2021-22 is ` 2,15,233 as against ` 1,83,704 for 2020-21.

Population: As per the Population Census 2011, population of the State was 11.24 crore, which was 9.3 per cent of All-India population. The State was second largest population state in India after Uttar Pradesh.

Rainfall: Total rainfall in the State during monsoon 2022 was 119.8 per cent of the normal. Out of 355 talukas (excluding those in Mumbai City & Mumbai Suburban districts) in the State, 204 talukas received excess rainfall, 145 talukas received normal and six talukas received deficient rainfall.

Land size holding: Average size of operational holding in the State as per Agriculture Census 2015-16 is 1.34 ha as against 4.28 ha during Agriculture Census 1970-71. According to Agriculture Census 2015-16, the total area of small & marginal operational holdings (upto 2.0 ha) constituted 45 per cent of the total area of operational holdings whereas number of small & marginal operational holdings constituted 79.5 per cent of the total number of operational holdings.

Land utilization: As per the land utilization statistics for 2021-22, the gross cropped area was 241.49 lakh ha while net sown area was 165.90 lakh ha (about 53.9 per cent) of the total 307.58 lakh ha geographical area of the State.

Cropping pattern:

The cultivated area (17.43 million ha) is about 80% of the total geographical area and the irrigated area is about 17% (2.94 million ha). With large dependence on rainfall, the cropping intensity is around 127%. The soils are shallow and deficient in nitrogen, phosphorus, zinc and sulphur. The important crops of the state are sugarcane, cotton, sorghum, pearl millet, chickpea, soybean, sunflower and safflower

Sorghum is cultivated in Maharashtra both for grain and fodder during kharif (area 13.84 lakh ha) and rabi (area 30.17 lakh ha). Kharif sorghum is also becoming popular as poultry and



animal feed. The percentage area under rabi sorghum (64 %) is more than kharif sorghum (36 %) area.

Chickpea is the second most important pulse crop in the state, occupying 10.88 lakh ha area with 7.13 lakh tonnes of production and 655 kg/ha yield.

Agricultural Production:

Kharif crops: During kharif season of 2022-23, sowing was completed on 157.97 lakh ha, as against 163.79 lakh ha during previous year in the State. Area under oilseeds is expected to increase while area under cereals, pulses, sugarcane and cotton is expected to decrease as compared to the previous year.

Rabi crops: During rabi season of 2022-23, sowing was completed on 57.74 lakh ha as against 60.10 lakh ha during previous year in the State. Area under pulses and oilseeds is expected to increase whereas area under cereals is expected to decrease as compared to previous year.

Summer crops: During summer 2021-22, the sown area of summer crops was 4.17 lakh ha. Sowing target of 4.21 lakh ha has been set for 2022-23.

Horticulture: Area under horticulture crops was 23.46 lakh ha in 2022-23 as against 23.92 lakh ha in 2021-22. As per the first advance estimates, total area under fruit crops in the State during 2022-23 is 8.32 lakh ha, of which area under mango is highest (1.64 lakh ha) followed by pomegranate (1.56 lakh ha), grapes (1.19 lakh ha), mandarin orange (1.20 lakh ha), banana (0.91 lakh ha) and mosambi (0.65 lakh ha). As per the first advance estimates, total area under vegetables in the State during 2022-23 is 11.62 lakh ha, of which onion is highest (9.18 lakh ha) followed by tomato (0.60 lakh ha) and green chilly (0.33 lakh ha).

Irrigation: The irrigated area in command area under the jurisdiction of Water Resources Department, GoM is 43.38 lakh ha in 2021-22.

Animal Husbandry:

Animal husbandry, dairy, fishery and forestry are allied activities to agriculture. These activities not only supplement family income but also generate employment opportunities in the rural areas, particularly among landless labourers, small & marginal farmers and women. It also provides nutritious food at low cost.

Livestock Census

As per Livestock Census 2019, the State ranks seventh at national level with total livestock of about 3.31 crore and ranks fifth at national level with total poultry birds 7.43 crore.

The State ranks sixth in milk production and per capita availability of milk in the State is 305 gram per day as against 427 gram per day at the national level. The State ranks fifth in eggs



production and per capita availability of eggs in the State is 52 eggs per annum as against 98 eggs per annum at the national level.

Goa state

Goa is a state on the south western coast of India. The location was recognized as the Konkan and geographically separated from the Deccan highlands with Western Ghats. It is encircled by Maharashtra towards north and Karnataka towards the east and south, with the Arabian Sea shaping its western coast it is well known to be the touristic destination in the world.

State economy: The GSDP for the State of Goa at Current Prices for the year 2021-22 is Rs. 82603.70 crore as against Rs. 75705.40 crore (Provisional) for the year 2020-21 thereby registering a growth of 9.11 per cent for the year 2021-22. The Primary sector accounted for 7.84 percent, secondary sector for 52.06 percent and tertiary sector accounted for 40.10 percent. Per capita Income depicts an upward trend from Rs. 454172 in the year 2017-18 to Rs. 486851 in the year 2020-21 and Rs.527146 in the year 2021-22.

Population: Estimated Population of Goa for the year 2023 is 15,75,000 out of which male are estimated to be 7.93 lakh (50.4%) and female are 7.81 lakh (49.6%) as per the report on Population Projections for India and States 2011-2036, published by the National Commission on Population.

The overall estimated growth in population since 2011 to 2021 is 6.89 % and estimated growth up to 2023 is 7.98%.

Climate & Rainfall: Goa receives rain from the South - West monsoons. The average rainfall is 2800 mm. rainy season is spread over four months from June to September. Occasional thunder showers are experienced in May and October. Goa experiences warm and humid tropical climate. The summer temperature ranges from 24° C to 36° C. In winter, the mercury hovers between 21°C and 30°C.

Irrigation

In Goa traditional sources of irrigation were storage tanks, small Diversion bandharas, natural springs and wells. For rabi paddy (vaigon) Irrigation was mostly from storage tanks located in Salcete and Bardez. The usual practice is to cultivate kharif paddy in tank bed and the water weir is closed early in September after harvest of Kharif paddy. In Ponda, Sanguem and Bicholim small kuccha "diversion" works are constructed on Nallas to irrigate paddy fields during Rabi. Considerable area under arecanut depends on various springs at higher altitudes. After Liberation of Goa, a number of Government "lift irrigation schemes" were



commissioned. Irrigation wells were also opened. Further commissioning of Salaulim Irrigation Project at Sanguem and Anjunem Irrigation Project, State has added to irrigate an area of more than 10,000 ha.

Important Crop of Goa

Fruits: Mango, Cashew, Coconut, Banana, Pineapple, Jackfruit, Arecanut etc.

Field crops: Paddy, Ragi, Sugarcane, Groundnut, Cowpea etc.

Vegetables: Brinjal, Bhendi, Chillies, Cucumber, Pumpkin, Gourds, Musk Melons, Red amaranthus, Raddish, Knol-Khol, Cabbage, Bottle gourd, Long beans, Cluster beans etc.

Flowers: Jasmine, Crossandra, Dahlia, Hibiscus, Marigold, Orchids, Gerbera, Anthuriums, Gladiolus, etc.

Spices: Black Pepper, Nutmeg, Kokum, Turmeric, Cinnamon, etc.

Tubers: Colocasia, Yam, Elephant foot, Dioscorea, Sweet Potato, etc

Animal Husbandry:

According to Livestock Census 2019, the total number of livestock in the state is 132,406 of which 60,247 cattle, 27,207 buffalo, 9,446 goats and 8 sheep and the total number of poultry birds are 49,543.

The annual Milk production is estimated to 63205.540 tonnes, Egg production to 438.32 lakh and Meat production to 5927.863 tonnes as per Integrated Sample Survey.



Proceedings of Annual Action Plan & Natural Farming Workshop of KVKs of Maharashtra and Goa

Venue: YCMOU, Nashik

Date: 13 to 14 March, 2024

Inaugural Session

ICAR-Agricultural Technology Application Research Institute (ATARI), Pune co-organized a two-day Annual Action Plan & Natural Farming Workshop of KVKs in Maharashtra and Goa in collaboration with Yashwantrao Chavan Maharashtra Open University at Nashik during 13-14 March, 2024. The major objective of this workshop was to critically review and finalize Action Plan for 2024-25.

Time	Programme	Speakers
09.00-09.30 hrs	Registration	
09.30- 9.40 hrs	Arrival of Hon'ble Chief Guest, Special Guests and Dignitaries ICAR Song and Lighting of Lamp	
09.40-09.50 hrs	Welcome and about the workshop	Dr. S. K Roy, Director, ICAR-ATARI, Pune
09.50-10.00 hrs	Remarks by Guest of Honor	Dr. V. M. Mayande, Former Vice Chancellor, PDKV, Akola
10.00-10.10 hrs	Remarks by Guest of Honor	Dr. K. D. Kokate, Former DDG (Agril. Extension), ICAR, New Delhi
10.10-10.20 hrs	Remarks by Guest of Honor	Dr. Rajarshi Roy Burman, ADG (Agril. Extension) ICAR, New Delhi
10.20-10.35 hrs	Remarks by the Hon'ble Chief Guest	Prof. Sanjeev Sonawane, VC, YCMOU, Nashik
10.35-10.50 hrs	Inaugural Speech by the Hon'ble Chief Guest	Dr. U. S. Gautam, DDG (Agril. Extension), ICAR, New Delhi
10.50-11.00 hrs	Vote of Thanks	Tushar Athare, Scientist, ICAR-ATARI, Pune

Dr. S. K. Roy, Director, Director, ICAR-ATARI, Pune welcomed the delegates and KVK Heads to the Inaugural Programme on 13th March 2024 at 09.40 am. In his welcome address emphasized the role of ATARI Pune, and guided KVKs on website development of KVKs, Project account opening, development of crop wise package of practices under Natural Farming. He also emphasized on technology upscaled, technology commercial and technology recommended to state department should reflect in Annual Action Plan and Annual Progress Report.



In inaugural address, Dr. V. M. Mayande, the Former Vice Chancellor of PDKV, Akola, emphasized the importance of directing attention towards post-production marketing strategies and enhancing the value chain within the agricultural sector. By stressing the importance of climate resilience technologies, he highlighted the necessity of adopting innovative solutions to mitigate the adverse effects of climate change on agriculture. Additionally, his discussion on soil and water resource degradation brought attention to the urgent need for sustainable practices that preserve these vital resources for future generations.

While addressing the gathering, Dr. K. D. Kokate, former DDG, Agril. Extn, ICAR New Delhi emphasized the importance of conserving the natural resources present on the KVK farm. He urged the Krishi Vigyan Kendras (KVKs) to take proactive measures in developing district-specific strategies that would help increase the income of farmers. Additionally, he stressed the need for KVKs to create a comprehensive roadmap for extension functionaries, outlining their roles and responsibilities in disseminating agricultural knowledge and practices.

Dr. R Roy Burman, ADG, Agril. Extn. ICAR New Delhi in his address provided valuable guidance to Krishi Vigyan Kendras (KVKs) on effectively implementing various agricultural programs and initiatives. He emphasized the importance of conducting On-Farm Trials (OFT) and Frontline Demonstrations (FLD) to evaluate the effectiveness of new agricultural practices and technologies. He highlighted the significance of establishing model villages that focus on the cultivation of oilseeds and pulses. To ensure effective dissemination of agricultural knowledge and solutions, he emphasized the need for KVKs to develop one-stop solutions. Lastly, He highlighted the potential of drone technologies in agricultural extension. Drones can be utilized for various purposes, including crop monitoring, pest surveillance, and precision agriculture.

Professor Sanjeev Sonawane, Vice Chancellor of Yashwantrao Chavan Maharashtra Open University (YCMOU) in Nashik, delivered a keynote address at the workshop where he was invited as the Chief Guest. In his speech, he emphasized the significance of AI-based technologies in agriculture, the valuable knowledge possessed by farmers, and the multidisciplinary nature of Krishi Vigyan Kendras (KVKs).

Dr. Parag Haldankar, DEE, BSKKV, Dapoli, Dr. D. N Gokhale, DEE, VNMKV, Parbhani, Dr. C. S. Patil, DEE, MPKV, Rahuri, Dr. D. B. Undirwade, DEE, PDKV, Akola, Dr. A. U. Bhikane, DEE, MAFSU, Nagpur guided KVKs gave their valuable suggestions for developing realistic action plan of KVKs.

Vote of Thanks for the Inaugural Programme was given by Dr. Tushar Athare, Scientist, ICAR-ATARI, Pune.

In this program, overall 65 participants were present were as 52 Senior Scientists and Heads representing 50 KVKs of Maharashtra and 02 KVKs of Goa participated and presented their action plan for the upcoming year 2024-25.



Technical Sessions

Day 1: 13 March 2024

Technical Session-I (Parallel)

11.30-13.30 hrs	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)	
	Chair for Technical Sessions	Dr. V. M. Mayande, Former Vice-Chancellor, PDKV, Akola
	Co-Chairs for Technical Sessions	Dr. A. U. Bhikane, DEE, MAFSU, Nagpur Dr. D. B. Undirwade, DEE, PDKV, Akola & Dr. D. N Gokhale, DEE, VNMKV, Parbhani
	Rapporteurs	Dr. U. G. Thakare, KVK Akola Dr. S. D. Somwanshi, KVK Jalna-II
	Presentation by 10 KVKs	Chandrapur, Gadchiroli, Akola, Bhandara, Jalna-I, Buldhana-I, Osmanabad, Beed-II, Jalna-II, Beed-I
13.30-13.45 hrs	Remarks of Chair and Co-chairs	

In this session, a total of 10 KVKs out of this 03 KVKs under PDKV, Akola, 03 KVKs under VNMKV, Parbhani and 04 KVKs of NGOs presented there Action Plan. The comments and suggestion are given below.

KVK wise Suggestions:

1) KVK, Chandrapur:

- Conduct study on 'Effectiveness of Trainings'.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	08	90	14	104
2	Front Line Demonstration	08	70	28	98
3	CFLD (O & P)	06	200	75	275
4	Training Programmes				
4.1	Farmers / Farm Women	70	1550	600	2100
4.2	Rural Youth	10	200	100	300
4.3	Extension Functionaries	10	200	100	300
5	Extension Activities (Major)	20	2000	500	2500
	Total	132	4310	1417	5727

2) KVK, Gadchiroli:



- Study on ‘Why other villages of tribal area are not developing like Lekha Mendha Village’ in spite of amendment in forest act.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	103	53	156
2	Front Line Demonstration	15	161	34	195
3	CFLD (O & P)	10	250	100	350
4	Training Programmes				
4.1	Farmers / Farm Women	74	2812	962	3774
4.2	Rural Youth	28	769	108	877
4.3	Extension Functionaries	23	768	185	953
5	Extension Activities (Major)	76	9654	2540	12194
	Total	238	14517	3982	18499

3) KVK, Akola:

- Conduct study on Utility of QR based ATK Smart Card.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	13	89	21	110
2	Front Line Demonstration	15	194	36	230
3	CFLD (O & P)	125	95	30	125
4	Training Programmes				
4.1	Farmers / Farm Women	75	1300	500	1800
4.2	Rural Youth	25	1000	200	1200
4.3	Extension Functionaries	10	500	100	600
5	Extension Activities (Major)	600	14426	5124	19550
	Total	863	17604	6011	23615

4) KVK, Bhandara:

- No Specific Suggestion.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	91	39	130
2	Front Line Demonstration	10	95	35	130
3	CFLD (O & P)	200	140	60	200
4	Training Programmes				
4.1	Farmers / Farm Women	73	1668	778	2446
4.2	Rural Youth	8	159	91	250



4.3	Extension Functionaries	3	71	29	100
5	Extension Activities (Major)	33	6565	5605	12170
	Total	427	10807	7595	18402

5) KVK, Jalna-I:

- Study on present marketing linkages for Sericulture.
- Analyze on Impact of Krishak - Vigyan Mandal.
- Mention interventions to overcome low shelf life on Guava Syrup.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	123	26	149
2	Front Line Demonstration	27	545	40	585
3	CFLD (O & P)	05	150	25	175
4	Training Programmes				
4.1	Farmers / Farm Women	74	1540	470	2010
4.2	Rural Youth	18	300	150	450
4.3	Extension Functionaries	12	210	100	310
5	Extension Activities (Major)	352	8000	1425	9425
	Total	503	10868	2236	13104

6) KVK, Buldana-I:

- Mention area and income increase in custard-apple.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	115	35	150
2	Front Line Demonstration	17	220	54	274
3	CFLD (O & P)	4	120	30	150
4	Training Programmes				
4.1	Farmers / Farm Women	66	1338	395	1583
4.2	Rural Youth	19	329	116	445
4.3	Extension Functionaries	10	305	64	369
4.4	Vocational Training	2	35	10	45
5	Extension Activities (Major)	483	19910	2200	22110
	Total	616	22372	2904	25126

7) KVK, Osmanabad:

- Do not conduct interventions on Vegetable Preservator.
- Study on constraints faced by farmers in adoption of IPM/IPDM and Bio-fertilizers.



Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	18	90	75	165
2	Front Line Demonstration	23	154	293	447
3	CFLD (O & P)	02	30	20	50
4	Training Programmes				
4.1	Farmers / Farm Women	74	1380	975	2355
4.2	Rural Youth	15	290	160	450
4.3	Extension Functionaries	15	290	155	445
5	Extension Activities (Major)	55	2280	2730	5010
	Total	202	4514	4408	8922

8) KVK, Beed-II:

- Conduct a Bench mark survey on Nutrition Status of the Clientele group.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	11	85	40	125
2	Front Line Demonstration	14	80	60	140
3	CFLD (O & P)	01	20	5	25
4	Training Programmes				
4.1	Farmers / Farm Women	32	661	403	1064
4.2	Rural Youth	18	263	322	585
4.3	Extension Functionaries	16	292	305	597
5	Extension Activities (Major)	138	2040	1400	3440
	Total	230	3441	2535	5976

9) KVK, Jalna-II:

- Being a new KVK try to reach many farmers and erect demonstration units at KVK.
- Mother block of all main fruit crops must be developed for production in nursery.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	100	50	150
2	Front Line Demonstration	16	110	50	160
3	CFLD (O & P)	04	75	50	125
4	Training Programmes				
4.1	Farmers / Farm Women	100	2000	1000	3000
4.2	Rural Youth	25	500	250	750



4.3	Extension Functionaries	25	500	250	750
5	Extension Activities (Major)	100	5000	2500	7500
	Total	285	8285	4150	12435

10) KVK, Beed- I:

- Conduct Study on 'Impact of Backyard Poultry'.
- Reveal Economics of Millet Processing by SHGs.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	114	20	134
2	Front Line Demonstration	20	180	110	290
3	CFLD (O & P)	06	100	50	150
4	Training Programmes				
4.1	Farmers / Farm Women	72	1234	355	1589
4.2	Rural Youth	16	183	54	237
4.3	Extension Functionaries	14	196	89	285
5	Extension Activities (Major)	141	4796	1200	5996
	Total	284	6803	1878	8681

Technical Session-I (Parallel)

11.30-13.30 hrs	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)	
	Chair for Technical Sessions	Dr. K. D. Kokate, Former DDG (Agril Extension) ICAR, New Delhi
	Co-Chairs for Technical Sessions	Dr. C. S. Patil, DEE, MPKV, Rahuri & Dr. Parag Haldankar, DEE, BSKKV, Dapoli
	Rapporteurs	Mr. B. K. Gawade, KVK Sindhudurg & Dr. M. S. Babar, KVK Satara-II
	Presentation by 10 KVKs	Dhule, Jalgaon-II, Satara-II, Solapur-I, Solapur-II, Raigadh, Ratnagiri, Sindhudurg, Palghar, Thane
13.30-13.45 hrs	Remarks of Chair and Co-chairs	

In this session, a total of 10 KVKs out of this 04 KVKs under MPKV, Rahuri, 02 KVKs under BSKKV, Dapoli and 04 KVKs of NGOs presented there Action Plan. The comments and suggestion are given below.

KVK wise Suggestions:

1) KVK, Dhule:



- Focus on Bio fortified varieties.
- Assess the technology reach and income from agriculture in the District.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	18	200	57	257
2	Front Line Demonstration	21	200	154	354
3	CFLD (O & P)	02	117	33	150
4	Training Programmes				
4.1	Farmers / Farm Women	77	1626	638	2264
4.2	Rural Youth	22	436	164	600
4.3	Extension Functionaries	09	227	103	330
5	Extension Activities (Major)	550	9734	4793	14527
	Total	676	12568	5921	18489

2) KVK, Jalgaon II:

- Prepare short videos on Banana technology. (Export Quality Banana)
- Increase technologies instead of Varietal Trail.
- In OFT- Tuberose – Don't assess the yield, try to assess acceptance.
- In OFT prefer netted variety of Muskmelon.
- Do not conduct demonstration under FLD on Okra.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	11	125	40	165
2	Front Line Demonstration	15	150	75	225
3	CFLD (O & P)	2	100	50	150
4	Training Programmes				
4.1	Farmers / Farm Women	42	1250	450	1700
4.2	Rural Youth	17	510	90	600
4.3	Extension Functionaries	14	450	150	600
5	Extension Activities (Major)	51	3020	1500	4520
	Total	152	5605	2355	7960

3) KVK, Satara II:

- During the demonstration of French bean focus on local variety *Waghya* for production, prepare database and success story. Include *Waghya* variety in Natural farming demonstrations. Try to assess the taste of *Waghya* compared to new varieties.

Summary of proposed KVK activities



Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	08	103	-	103
2	Front Line Demonstration	10	132	-	132
3	CFLD (O & P)	02	50	-	50
4	Training Programmes				
4.1	Farmers / Farm Women	68	1742	770	2512
4.2	Rural Youth	16	285	160	445
4.3	Extension Functionaries	10	240	55	295
4.4	Natural farming	09	300	110	410
5	Extension Activities (Major)	550	7027	2500	9527
	Total	673	9879	3595	13474

4) KVK, Solapur I:

- Work on percent employment generation through ARYA.
- Prepare video on KVKs contribution in spread of BBF technology in Soybean.
- Take one component based on need of district; jointly work with other KVK of the district.
- OFT- Papaya- Replace the variety F-15 in T2.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	143	30	173
2	Front Line Demonstration	17	181	104	285
3	CFLD (O & P)	02	100	0	100
4	Training Programmes				
4.1	Farmers / Farm Women	58	955	515	1470
4.2	Rural Youth	15	365	90	455
4.3	Extension Functionaries	15	300	65	365
5	Extension Activities (Major)	77	19722	3793	23515
	Total	196	21766	4597	26363

5) KVK, Solapur II:

- Take one component based on need of district; jointly work with other KVK of the district.
- Increase the revolving fund.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	11	150	30	180
2	Front Line Demonstration	19	250	35	285



3	CFLD (O & P)	02	140	10	150
4	Training Programmes				
4.1	Farmers / Farm Women	72	1587	504	2091
4.2	Rural Youth	19	435	110	545
4.3	Extension Functionaries	15	501	169	670
5	Extension Activities (Major)	383	24840	2000	26840
	Total	628	30426	3641	34067

6) KVK, Raigad:

- Use the term production to Value addition instead of Masses to Classes.
- Increase demonstrations on Fishery activities.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	36	29	65
2	Front Line Demonstration	59 ha	112	92	204
3	CFLD (O & P)	40 ha	98	78	176
4	Training Programmes				
4.1	Farmers / Farm Women	41	674	368	1042
4.2	Rural Youth	33	582	388	970
4.3	Extension Functionaries	20	294	216	510
5	Extension Activities (Major)	32	11864	11592	23456
	Total	238	13660	12763	26423

7) KVK, Ratnagiri:

- As major component and uniqueness, propose OFTs and FLDs mostly on Fishery.
- Red rice should be promoted.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	06	20	10	35
2	Front Line Demonstration	25	312	157	469
3	CFLD (O & P)	03	120	55	175
4	Training Programmes				
4.1	Farmers / Farm Women	52	1040	520	1560
4.2	Rural Youth	04	80	40	120
4.3	Extension Functionaries	09	180	90	270
5	Extension Activities (Major)	497	4947	3912	9399
	Total	604	6704	4784	12023

8) KVK, Sindhudurg:



- In OFT-3, add Mango practices as per university recommendation in T2.
- Propose or include Mulching in Rice OFT near Phondaghat area in collaboration with ARS, Phondaghat.
- Study on impact of adoption on Groundnut varieties, production and productivity of District.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	07	37	18	55
2	Front Line Demonstration	10	24	51	75
3	CFLD (O & P)	02	350	100	450
4	Training Programmes				
4.1	Farmers / Farm Women	51	740	350	1090
4.2	Rural Youth	08	95	85	180
4.3	Extension Functionaries	11	190	60	250
4.4	Sponsored	06	118	142	260
5	Extension Activities (Major)	33	3229	1536	4765
	Total	124	4783	2292	7075

9) KVK, Palghar:

- Focus on Jamun and work for GI registration.
- Visit to KVK, Patanamkotta from Kerla regarding work on Jackfruit.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	13	84	54	138
2	Front Line Demonstration	19	193	117	310
3	CFLD (O & P)	01	40	20	60
4	Training Programmes				
4.1	Farmers / Farm Women	89	895	875	1170
4.2	Rural Youth	32	415	289	704
4.3	Extension Functionaries	20	217	131	348
5	Extension Activities (Major)	78	2520	1786	4306
	Total	252	4364	3272	7636

10) KVK, Thane:

- Conduct on new livestock and fishery based models.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total



1	On Farm Trials	06	90	90	180
2	Front Line Demonstration	10	100	100	200
3	CFLD (O & P)	05	200	150	350
4	Training Programmes				
4.1	Farmers / Farm Women	12	200	200	400
4.2	Rural Youth	04	50	50	100
4.3	Extension Functionaries	06	540	100	640
5	Extension Activities (Major)	11	500	400	900
	Total	54	1680	1090	2770

Technical Session-II (Parallel)

14.30-16.30	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)	
	Chair for Technical Sessions	Dr. V. M. Mayande, Former Vice-Chancellor, PDKV, Akola
	Co-Chairs for Technical Sessions	Dr. A. U. Bhikane, DEE, MAFSU, Nagpur Dr. D. B. Undirwade, DEE, PDKV, Akola & Dr. D. N Gokhale, DEE, VNMKV, Parbhani
	Rapporteurs	Dr. R. K. Singh, KVK Nagpur-I Dr. R. L. Kale, KVK Washim
	Presentation by 10 KVKs	Nagpur-I, Nagpur-II, Gondia, Amravati-I, Amravati-II, Hingoli, Latur, Parbhani, Aurangabad-II, Washim
16.30-16.45 hrs	Remarks of Chair and Co-chairs	

In this session total 10 KVK presented action plan for the year 2024. Suggestions given by Chairman, Co chairman, experts and other participants in the house are given below.

KVK wise Suggestions:

1) KVK, Nagpur-I:

- Assess the impact of green fodder on milk yield promoted under the FLD programme.
- Assess the impact of TSP programme.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	11	110	46	156
2	Front Line Demonstration	15	166	32	198
3	CFLD (O & P)	5	125	50	175
4	Training Programmes				
4.1	Farmers / Farm Women	63	1077	626	1703



4.2	Rural Youth	32	542	323	865
4.3	Extension Functionaries	10	292	253	545
5	Extension Activities (Major)	245	24972	7436	32408
	Total	350	26883	8638	35521

2) KVK, Nagpur-II:

- KVK must fill all the post through MAFSU as early as possible, if not possible MAFSU must be taken the staff on contractual basis.
- Mother block of Orange garden must be developed for production of nursery.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	02	25	06	31
2	Front Line Demonstration	--	--	--	--
3	CFLD (O & P)	-	-	-	-
4	Training Programmes				
4.1	Farmers / Farm Women	09	180	90	270
4.2	Rural Youth	09	180	90	270
4.3	Extension Functionaries	02	50	10	60
5	Extension Activities (Major)	30	700	300	1000
	Total	52	1135	496	1631

3) KVK, Gondia:

- Turmeric cultivation area may increase & try for its processing.
- Azolla production may increase & used in lactating animals.
- Complete value chain may be developed for turmeric production.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	100	30	130
2	Front Line Demonstration	08	68	30	98
3	CFLD (O & P)	04	150	50	200
4	Training Programmes				
4.1	Farmers / Farm Women	40	920	460	1400
4.2	Rural Youth	19	485	160	645
4.3	Extension Functionaries	14	475	135	610
5	Extension Activities (Major)	139	3210	1580	4790
	Total	313	7418	3250	10668

4) KVK, Amravati-I:



- KVK should focused on malnutrition in Melghat & specially focus on improving their nutritional status.
- Foxtail millets area may be increased by involving practicing farmers.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	74	20	94
2	Front Line Demonstration	25	205	120	436
3	CFLD (O & P)	2	0	0	75
4	Training Programmes				
4.1	Farmers / Farm Women	89	858	470	2543
4.2	Rural Youth	26	388	174	732
4.3	Extension Functionaries	14	152	103	420
5	Extension Activities (Major)	196	3072	1498	5920
	Total	364	4749	2385	10220

5) KVK, Amravati-II:

- Study on proper impact of Bio fertilizer should be conducted.
- Document the role of KVK in promoting the enterprise development in the KVK jurisdiction.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	14	62	21	83
2	Front Line Demonstration	11	150	28	178
3	CFLD (O & P)	02	125	0	125
4	Training Programmes				
4.1	Farmers / Farm Women	93	1875	661	2536
4.2	Rural Youth	31	671	511	1182
4.3	Extension Functionaries	17	384	197	581
5	Extension Activities (Major)	101	11000	1200	12200
	Total	269	14267	2618	16885

6) KVK, Hingoli:

- Use of social media for extension activities & prepare impact of social media used by the farmers.
- KVK should make some interventions in turmeric specially focusing on processing.

Summary of proposed KVK activities



Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	99	00	99
2	Front Line Demonstration	11	104	0	104
3	CFLD (O & P)	3	75	0	75
4	Training Programmes				
4.1	Farmers / Farm Women	54	1145	475	1620
4.2	Rural Youth	30	172	38	210
4.3	Extension Functionaries	15	116	64	180
5	Extension Activities (Major)	38	2550	570	3120
	Total	212	4261	1147	5408

7) KVK, Latur:

- Role of KVK must be justified in Soybean seed production.
- Role of KVK in making Pulse Processing for popularizing the Mini Dal mill.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	18	140	40	180
2	Front Line Demonstration	23	301	130	431
3	CFLD (O & P)	04	375	0	375
4	Training Programmes				
4.1	Farmers / Farm Women	49	765	387	1152
4.2	Rural Youth	14	235	125	360
4.3	Extension Functionaries	10	230	90	320
5	Extension Activities (Major)	166	5070	1690	6760
	Total	284	7116	2462	9578

8) KVK, Parbhani:

- Exact role of KVK must be come out by presenting or publication of data for popularizing that particular app by using satellite images.
- Study on impact of AI in Agriculture.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	115	40	155
2	Front Line Demonstration	14	165	70	235
3	CFLD (O & P)	04	200	25	225
4	Training Programmes				
4.1	Farmers / Farm Women	72	2515	600	3115
4.2	Rural Youth	18	585	130	715



4.3	Extension Functionaries	16	520	160	680
5	Extension Activities (Major)	436	6515	1775	8290
	Total	575	10615	2800	13415

9) KVK, Aurangabad –II:

- Proper documentation on impact of significant achievements by KVK in adopted village.
- Use high yielding varieties of Pigeon pea in FLD programme.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	18	179	50	229
2	Front Line Demonstration	23	280	35	315
3	CFLD (O & P)	04	80	20	100
4	Training Programmes				
4.1	Farmers / Farm Women	53	755	355	1110
4.2	Rural Youth	13	190	75	265
4.3	Extension Functionaries	10	150	60	210
5	Extension Activities (Major)	218	2860	1000	3860
	Total	339	4494	1595	6089

10. KVK, Washim:

- Roasted Soybean must be promoted.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	15	102	46	148
2	Front Line Demonstration	17	134	267	401
3	CFLD (O & P)	06	325	25	350
4	Training Programmes				
4.1	Farmers / Farm Women	86	1960	330	2290
4.2	Rural Youth	18	295	135	430
4.3	Extension Functionaries	12	165	70	235
5	Extension Activities (Major)	185	12257	3570	15827
	Total	339	15238	4443	19681

Technical Session-II (Parallel)

14.30-16.30	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)
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	Chair for Technical Sessions	Dr. K. D. Kokate, Former DDG (Agril Extension) ICAR, New Delhi
	Co-Chairs for Technical Sessions	Dr. C. S. Patil, DEE, MPKV, Rahuri & Dr. Parag Haldankar, DEE, BSKKV, Dapoli
	Rapporteurs	Mr. J. B. Jagtap, KVK Kolhapur-I Dr. P. G. Shete, KVK Pune-II
	Presentation by 10 KVKs	Ahmednagar-I, Ahmednagr-II, Pune-I, Pune-II, Jalgaon-I, Kolhapur-I, Nanded-I, Nanded-II, North Goa, South Goa
16.30-16.45 hrs	Remarks of Chair and Co-chairs	

In this session total 10 KVK presented action plan for the year 2024. Suggestions given by Chairman, Co chairman, experts and other participants in the house are given below.

KVK wise Suggestions:

1) KVK, Ahmednagar I:

- Conduct SAC meeting on regular basis.
- Increase stagnated revolving fund.
- Prepare proper document on FPO.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	18	125	50	175
2	Front Line Demonstration	18	150	70	220
3	CFLD (O & P)	02	130	20	150
4	Training Programmes				
4.1	Farmers / Farm Women	57	1395	375	1770
4.2	Rural Youth	09	185	54	250
4.3	Extension Functionaries	09	170	90	260
5	Extension Activities (Major)	06	600	600	1200
	Total	119	2755	1059	4025

2) KVK, Ahmednagar II:

- Change the title of OFT6 Onion – instead of Natural farming use the word Organic farming in the title.
- In OFT7 Mango Malformation OFT Trial refer technology of Maharashtra SAUs and then go for IIHR, Lukhnow and TNAU technology.
- Identify location specific problems while planning action plan.
- Discuss OFTs and FLDs with University Scientists.
- In Banana FLD – add uwa in existing spraying.



- Check training participant's number.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	22	191	28	219
2	Front Line Demonstration	19	156	34	193
3	CFLD (O & P)	5	188	12	200
4	Training Programmes				
4.1	Farmers / Farm Women	70	1927	324	2251
4.2	Rural Youth	13	285	65	350
4.3	Extension Functionaries	13	333	80	413
5	Extension Activities (Major)	492	52748	6225	58978
	Total	634	55828	6768	62604

3) KVK, Pune I:

- Impact study is necessary on farmer's income and KVK role.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	94	23	117
2	Front Line Demonstration	15	110	22	132
3	CFLD (O & P)	4	175	25	200
4	Training Programmes				
4.1	Farmers / Farm Women	54	1025	255	1280
4.2	Rural Youth	27	355	125	480
4.3	Extension Functionaries	17	190	65	255
5	Extension Activities (Major)	148	2750	590	3340
	Total	277	4699	1105	5804

4) KVK, Pune II:

- Revise the OFT Cashew and Paddy which is not recommended by BSKKV, Dapoli.
- In FLD conduct on Mango Powdery Mildew avoid use of traps.
- In FLD conduct on Mango Skirting Bag use reusable and colour coated bags.
- Promote low cost shade net house technology to farmers.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	16	137	67	204
2	Front Line Demonstration	18	185	112	297



3	CFLD (O & P)	02	91	34	125
4	Training Programmes				
4.1	Farmers / Farm Women	78	1747	753	2500
4.2	Rural Youth	20	397	198	595
4.3	Extension Functionaries	14	385	117	502
5	Extension Activities (Major)	272	93130	23285	116415
	Total	420	96072	24566	120638

5) KVK, Jalgaon I:

- Mention Banana Variety in OFT trial.
- Incorporate female participation in training.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	6	68	10	78
2	Front Line Demonstration	9	140	40	180
3	CFLD (O & P)	3	300	75	375
4	Training Programmes				
4.1	Farmers / Farm Women	113	1560	960	2520
4.2	Rural Youth	17	265	110	375
4.3	Extension Functionaries	9	60	60	120
5	Extension Activities (Major)	36	25750	10545	36295
	Total	200	28133	11800	39943

6) KVK, Kolhapur I:

- Avoid taking varietal assessment with all varieties from MPKV, Rahuri.
- OFT on varietal assessment of sugarcane takes susceptible variety Co-92005 in T1.
- OFT on varietal assessment of Gram go for FLD.
- OFT- Moringa leaf powder –change dose of moringa powder 2 gm/day instead of 4gm/day. Don't give crop critical input for T1 (Farmers practice).

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	77	37	115
2	Front Line Demonstration	17	178	66	244
3	CFLD (O & P)	2	96	4	100
4	Training Programmes				
4.1	Farmers / Farm Women	45	907	580	1498
4.2	Rural Youth	19	311	174	465
4.3	Extension Functionaries	7	113	54	157
5	Extension Activities (Major)	17	35826	15354	51180



Total	188	38839	17060	55878
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7) KVK, Nanded I: - No suggestion

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	21	255	65	320
2	Front Line Demonstration	18	205	120	325
3	CFLD (O & P)	05	150	50	200
4	Training Programmes				
4.1	Farmers / Farm Women	77	1209	588	1797
4.2	Rural Youth	30	522	367	889
4.3	Extension Functionaries	15	237	210	447
5	Extension Activities (Major)	61	4527	1314	5841
	Total	242	7105	2714	9819

8) KVK, Nanded II:

- OFT on Soybean weedicide follow new recommendation given by SAU.
- FLD conduct on Turmeric should be avoid spraying of GA3 and BA.
- Submit database of health check-up of Women's participated in Nutritional Garden.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	21	284	30	314
2	Front Line Demonstration	15	146	150	296
3	CFLD (O & P)	6	250	0	250
4	Training Programmes				
4.1	Farmers / Farm Women	72	720	360	1080
4.2	Rural Youth	12	120	60	180
4.3	Extension Functionaries	12	150	30	180
5	Extension Activities (Major)	400	9800	4050	13850
	Total				

9) KVK, North Goa:

- Need to fill staff position.
- Open new separate account for Revolving fund.

Summary of proposed KVK activities



Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	5	30	5	35
2	Front Line Demonstration	12	55	25	80
3	CFLD (O & P)	02	45	25	70
4	Training Programmes				
4.1	Farmers / Farm Women	30	260	350	610
4.2	Rural Youth	18	180	210	390
4.3	Extension Functionaries	03	30	30	60
5	Extension Activities (Major)	541	3051	2182	5233
	Total	613	3651	2827	6478

10) KVK, South Goa:

- Fill up the vacant posts.
- Check the variety of chilli.
- Grafted vegetable can be taken up.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	08	22	20	42
2	Front Line Demonstration	26	255	269	524
3	CFLD (O & P)	02	50	50	100
4	Training Programmes				
4.1	Farmers / Farm Women	60	700	800	1500
4.2	Rural Youth	10	150	100	250
4.3	Extension Functionaries	5	50	75	125
5	Extension Activities (Major)	150	1840	2600	4440
	Total	261	3067	3914	6981

Technical Session-III (Parallel)

17.00-18.15 hrs	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)	
	Chair for Technical Sessions	Dr. V. M. Mayande, Former Vice-Chancellor, PDKV, Akola
	Co-Chairs for Technical Sessions	Dr. A. U. Bhikane, DEE, MAFSU, Nagpur Dr. D. B. Undirwade, DEE, PDKV, Akola & Dr. D. N Gokhale, DEE, VNMKV, Parbhani
	Rapporteurs	Dr. K. K. Zade, KVK Aurangabad-I Dr. A. S. Taru, KVK Buldhana-II
	Presentation by 6 KVKs	Wardha, Yavatmal-I, Yavatmal-II, Buldhana-II, Nandurbar, Aurangabad-I



18.15-18.30 hrs	Remarks of Chair and Co-chairs
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In this session, total 06 KVKs presented their Annual Action Plan through PPT presentation. Chairman and Co-chairman gave the following remarks for the respective KVKs.

KVK wise Suggestions:

1) KVK, Wardha:

- Documented the benefits of use of tricho-cards.
- Do not promote Strawberry crop because it's non-profitable at Wardha District.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	82	24	106
2	Front Line Demonstration	08	66	21	87
3	CFLD (O & P)	04	300	50	350
4	Training Programmes				
4.1	Farmers / Farm Women	43	935	280	1215
4.2	Rural Youth	22	370	180	550
4.3	Extension Functionaries	14	410	160	570
5	Extension Activities (Major)	38	10375	5625	16000
	Total	135	12303	6275	18578

2) KVK, Yavatmal I:

- Project Bandhan- Specify mating disruption technology and also specify which institute recommended this technology.\

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	80	28	108
2	Front Line Demonstration	08	82	100	182
3	CFLD (O & P)	Oilseed -2 Pulses-2	41 82	09 18	50 (O) 100 (P)
4	Training Programmes				
4.1	Farmers / Farm Women	93	2451	973	3424
4.2	Rural Youth	09	214	151	365
4.3	Extension Functionaries	13	210	233	443
5	Extension Activities (Major)	458	158499	52761	211260
	Total	595	161770	54920	216048



3) KVK, Yavatmal II:

- Significant achievements of last five years with impact should be mention in presentation.
- Conduct ICM demonstrations in Nagpur Mandarin.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	71	35	106
2	Front Line Demonstration	13	258	175	433
3	CFLD (O & P)	04	75	50	125
4	Training Programmes				
4.1	Farmers / Farm Women	49	706	206	911
4.2	Rural Youth	06	115	12	127
4.3	Extension Functionaries	05	75	22	97
5	Extension Activities (Major)	10	1002	200	1204
	Total	97	2304	699	3003

4) KVK, Buldhana II:

- Analyse area under Mango Orchards in the District.
- Present significant achievements of KVK.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	110	31	141
2	Front Line Demonstration	14	250	85	335
3	CFLD (O & P)	0	0	0	0
4	Training Programmes				
4.1	Farmers / Farm Women	65	1700	291	1991
4.2	Rural Youth	15	300	185	485
4.3	Extension Functionaries	17	500	205	705
5	Extension Activities (Major)	90	3000	1500	4500
	Total	213	5872	2290	8162

5) KVK, Nandurbar:

- Study on problems or issues in use of BBF Technology.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total



1	On Farm Trials	14	112	57	169
2	Front Line Demonstration	14	115	86	201
3	CFLD (O & P)	06	225	25	250
4	Training Programmes				
4.1	Farmers / Farm Women	71	1194	890	2084
4.2	Rural Youth	20	340	210	550
4.3	Extension Functionaries	11	160	275	435
5	Extension Activities (Major)	37	1180	850	2030
	Total				

6) KVK Aurangabad I

- Study on 'Impact of Solar Dryer, BBF and Inter cropping Technology'.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	14	150	26	176
2	Front Line Demonstration	16	350	30	380
3	CFLD (O & P)	05	130	20	150
4	Training Programmes				
4.1	Farmers / Farm Women	56	1646	584	2230
4.2	Rural Youth	20	462	144	606
4.3	Extension Functionaries	19	460	120	580
5	Extension Activities (Major)	771	7022	1678	8700
	Total	996	12788	3450	16238

Technical Session- III (Parallel)

17.00-18.15 hrs	Presentation of Action Plan 2024 by KVKs (10 minute presentation +2 minute discussion)	
	Chair for Technical Sessions	Dr. K. D. Kokate, Former DDG (Agril Extension) ICAR, New Delhi
	Co-Chairs for Technical Sessions	Dr. C. S. Patil, DEE, MPKV, Rahuri & Dr. Parag Haldankar, DEE, BSKKV, Dapoli
	Rapporteurs	Dr. A. H. Ulemale, KVK Sangli-II Er. A. S. Patil, KVK Nashik-II
	Presentation by 6 KVKs	Satara-I, Kolhapur-II, Nashik-I, Nashik-II, Sangli-I, Sangli-II
18.15-18.30 hrs	Remarks of Chair and Co-chairs	

In this session, total 06 KVKs presented their Annual Action Plan through PPT presentation. Chairman and Co-chairman gave the following remarks for the respective KVKs.



KVK wise Suggestions:

1) KVK, Satara I:

- Try to avoid varietal assessment, go for FLD.
- With proper changes in consultation with experts, resubmit the action plan to ATARI Office.
- Avoid STCR bases OFT in action plan.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	56	14	70
2	Front Line Demonstration	20	208	52	260
3	CFLD (O & P)	10	56	14	70
4	Training Programmes				
4.1	Farmers / Farm Women	30	600	300	900
4.2	Rural Youth	25	500	250	750
4.3	Extension Functionaries	16	320	160	480
5	Extension Activities (Major)	28	6870	1700	8570
	Total	210	10030	3200	13230

2) KVK Kolhapur II:

- Mention the impact of socio-economic status of farmer's activity taken by KVK.
- Workout the impact assessment of your demonstrations.
- Change the demonstrations on control of Wolly aphids by 'Drone' to 'Control of Wolly aphids by Bio- agents'.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	12	126	30	156
2	Front Line Demonstration	13	138	45	183
3	CFLD (O & P)	02	150	00	150
4	Training Programmes				
4.1	Farmers / Farm Women	70	1039	496	1535
4.2	Rural Youth	15	181	114	295
4.3	Extension Functionaries	11	140	75	215
5	Extension Activities (Major)	712	21481	11567	33048
	Total	835	23255	12327	35582

3) KVK, Nashik I:

- Think about rainfed fodder production like stylo.



- Go for collaboration with Sahyadri farm.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	10	80	60	140
2	Front Line Demonstration	18	340	335	675
3	CFLD (O & P)	02	50	10	60
4	Training Programmes				
4.1	Farmers / Farm Women	125	3000	1500	4500
4.2	Rural Youth	30	500	350	850
4.3	Extension Functionaries	85	1700	700	2400
5	Extension Activities (Major)	150	10500	7000	17500
	Total	420	16170	9955	26125

4) KVK, Nashik II:

- Conduct impact analysis for Phule Sangam variety of Soybean and Bee keeping in pomegranate.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	14	128	36	164
2	Front Line Demonstration	19	175	54	209
3	CFLD (O & P)	1	35	15	50
4	Training Programmes				
4.1	Farmers / Farm Women	62	1305	505	1810
4.2	Rural Youth	15	363	137	500
4.3	Extension Functionaries	15	665	155	820
5	Extension Activities (Major)	215	1255	725	3985
	Total	367	4346	2047	8378

5) KVK, Sangli I:

- Submit OFTs in proper format.
- Conduct SAC meeting regularly.
- Work for spread of Bio fortified varieties.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	04	40	03	43
2	Front Line Demonstration	07	66	04	70



3	CFLD (O & P)	02	85	15	100
4	Training Programmes				
4.1	Farmers / Farm Women	34	731	154	885
4.2	Rural Youth	11	260	45	305
4.3	Extension Functionaries	07	145	30	175
5	Extension Activities (Major)	117	4560	815	5375
	Total	182	5887	1066	6953

6) KVK, Sangli II:

- Identify major issues related to livestock like dairy farmers and animal nutrition of District.

Summary of proposed KVK activities

Sr. No	Activity	No. of Programmes	No. of Participants		
			Male	Female	Total
1	On Farm Trials	04	42	12	54
2	Front Line Demonstration	33	330	150	480
3	CFLD (O & P)	-	-	-	-
4	Training Programmes				
4.1	Farmers / Farm Women	22	270	210	480
4.2	Rural Youth	10	150	75	225
4.3	Extension Functionaries	04	80	25	105
5	Extension Activities (Major)	40	1200	615	1815
	Total	113	2072	1087	3159



Day 2: 14 March 2024

**Workshop on Natural Farming
Ways to Implement Natural Farming in Different crops:
Constraints & Way Forward**

Technical Session-I (Parallel)

9.30-11.00 hrs	Presentation by KVKs (8 minute presentation +2 minute discussion)	
	Chairs for Technical Sessions	Dr. V. M. Mayande, Former Vice-Chancellor, PDKV, Akola
	Co-Chairs for Technical Sessions	Dr. A. U. Bhikane, DEE, MAFSU, Nagpur & Dr. D. B. Undirwade, DEE, PDKV, Akola
	Rapporteurs	Dr. S. S. Karhale, KVK-Gadchiroli Dr. Vikas Jadhav, KVK-Buldhana I
	Presentation by 9 KVKs	Ahmednagar-I, Akola, Buldhana-I, Gadchiroli, Gondia, Jalgaon-I, Jalna-I, Washim, Nandurbar
11.00-11.15 hrs	Remarks of Chair and Co-chairs	

The session was chaired by **Hon. Dr. V. M. Mayande**, Former VC, PDKV, Akola and Co-chaired by **Dr. D. B. Undirwade**, DEE, PDKV, Akola and **Dr. A. U. Bhikane**, DEE, MAFSU Nagpur.

The session was started by **Dr. S. K. Roy**, Director, ATARI, Pune. He emphasized on basic four pillars of NF i.e. Beejamrut, Jivamrut, Achhadan and Wafsa and he told that the KVKs staff is trained at NCOF, Gaziabad and Gurukul, Kurukshetra. NF is related to soil biology and biological farming, production of inputs and farm management practices hence he assumed that to present the same by all KVKs.

As per the session schedule, 09 (Nine) KVKs have presented their progress on natural farming. Overall comments to all KVKs on NF commonly addressed by the chair and co-chairs are as follows:

KVK wise Suggestions:

1) KVK, Ahmednagar I:

- As a scientist's be with scientific realistic results.
- Study on residual content of soil.

2) KVK, Akola:

- Use FYM in natural farming.
- Comparison of natural farming with INM & IPM.



3) KVK, Buldhana I:

- Check soil & organic carbon status.
- Analyzed impact of soil status.

4) KVK, Gadchiroli

- In budget calculate all cost conforms.
- INM is best practice.

5) KVK, Gondia

- Develop Standard operating procedure (SOP).
- Use of biofortified varieties.
- Study on complete residual history of soil like physical, chemical & biological parameters.

6) KVK, Jalgaon I

- Standardization of all inputs related to Lab at KVK for quality.
- Cropwise feedback taken by farmer in natural farming.

7) KVK, Jalna I

- Standardization of input quality of product for development of KVK.

8) KVK, Washim

- Use of biofortified varieties in natural farming.

9) KVK, Nandurbar

- Every season check soil status.
- Assessed input quality.
- Standardization of all inputs related to Lab at KVK for quality.

Comments by Hon. Chairman of the session Dr. V. M. Mayande

1. Study on physical, biological and chemical properties of soil residual content and recorded bench mark status of the soil by all KVKs at their own instructional farm and also on farmer's field for consecutive three or more years.
2. Cluster approach criteria will be beneficial in NF project.
3. Developed SOPs as per specific needs of crop and region in NF.
4. Record quality of inputs and standardization of the biological inputs in NF.
5. Laboratories should be setup for testing all NF inputs and produce at university level.
6. Adopted crop wise and season wise NF technology by the beneficiary farmers should be recorded properly with his feedback by KVKs.
7. Use of recommended dose of the inputs according to crop conditions.
8. As ICAR has not given any SOPs on NF, all KVKs should consider NF as a research programme & prove scientifically the ITKs in NF.



9. All observations taken in documentation with positive or negative approach realistically.
10. The NF is a challenge and opportunity to the KVKs, one must have conceived and validate the ancestral knowledge of NF.
11. Taken observation related to quality and quantity of the inputs with irrigation schedule from different field.

Comments by Co-Chair Hon. Dr. D. B. Undirwade

1. Develop SOPs to avoid administrative issues at university level in NF.
2. Develop manuals on NF.
3. Study on chemical properties of soil and its effects on crops.

Comments by Co-Chair Hon. Dr. A. U. Bhikane

1. Conduct experiment and research on quality of dung of different animals because deshi cow and bullock are important in NF.
2. Minimized variables and compares cases in NF.
3. Soil testing is mandatory to analyse the change through NF.

Technical Session-I (Parallel)

9.30-11.00 hrs	Presentation by KVKs (8 minute presentation +2 minute discussion)	
	Chairs for Technical Sessions	Dr. K. D. Kokate, Former DDG (Agri Extn), ICAR, New Delhi
	Co-Chairs for Technical Sessions	Dr. C. S. Patil, DEE, MPKV, Rahuri Dr. Parag Haldankar, DEE, BSKKV, Dapoli & Dr. D. N Gokhale, DEE, VNMKV, Parbhani
	Rapporteurs	Dr. D. R. Nandre, KVK-Dhule Dr. Suryavanshi, KVK-Osmanabad
	Presentation by 9 KVKs	Latur, Dhule, Osmanabad, Palghar, Pune-II, Raigad, Thane, Kolhapur-II, North Goa,
11.00-11.15 hrs	Remarks of Chair and Co-chairs	

As per the session schedule, 09 (Nine) KVKs have presented their work. Overall comments to all the KVKs on NF commonly addressed by the chair and co-chairs are as follows:

KVK wise Suggestions:

1) KVK, Latur:

- Highlight organic matter used along with chemicals in non-natural farming practice.
- Compare soil status both natural & non-natural practice.
- Cost calculation should be done.



- Motivate to the farmers for use of vermicompost, bio-wastes.
- Follow university recommended package of practice.
- Mention number of farmers getting higher yield using natural farming.
- Use 4 combinations trails- organic, natural, package of practice and farmers practice.
- Give feedback cropwise specifically – plant population, physiological parameters should be included.
- Conduct farmers school for natural farming
- Include disease & pest observations.
- Keep record of organic carbon before & after.

2) KVK, Dhule:

- Verify data of natural farming area in district with SAO.
- Check the content of Jeevamrut, Beejamrut, etc.
- Record economic performance of NF like net return, B:C Ratio.
- Soil testing before and after the demonstrations.

3) KVK, Osmanabad:

- Check cost of cultivation.
- Take farmers cropwise feedback.

4) KVK, Palghar:

- Check cost of cultivation of finger millet crop.

5) KVK, Pune II:

- FYM is not used in natural farming.
- Microbial analysis for farmer's field should be taken.

6) KVK, Raigad: No suggestions

7) KVK Kolhapur II:

- Taken cropwise feedback of the farmers.

8) KVK, Thane:

- Use the given template by ATARI without change.
- Provide proper yield data.

9) KVK, North Goa:

- Data should be taken cropwise. (Growth parameters)
Taken cropwise feedback of the farmers.

Comments by Hon. Chairman of the session Dr. K. D. Kokate

1. Conduct appropriate experimentation.



2. DEE, HOD's from university should participate and guide in the demos.
3. Take appropriate data.

Comments by Co-Chair Hon. Dr. C. S. Patil

1. Need to standardize beejamrut, jeevamrut, etc. scientifically.
2. No. of farmers should be uniform.
3. Use uncultivated land for natural farming

Comments by Co-Chair Hon. Dr. Parag Haldankar

1. Success of natural farming is on how we amend demos with conservation agriculture.
2. Use of local varieties to demonstration for good response to natural farming.
3. Recycling of residues is a good aspect.
4. There should be integrated approach for demos.

Comments by Co-Chair Dr. S. K. Roy

1. Ensure the SOP's & no other things have included in natural farming.
2. Maintain record for individual farmers of each crop.
3. Conduct multi treatment demonstration i.e package of practice in addition to natural and non-natural.
4. Take soil data on biological properties.
5. In demonstration increase no. of farmers accepting the natural farming.
6. Maintain record related to yield economical performances.

Concluding Remark on Session: -

NF is an opportunity to all the KVKs and farmers to minimize the dependability on chemical intensive, market oriented, costly inputs which is hazardous to soil, plant and animal health. The NF will help in improving soil health status, water quality and all eco-friendly activities through the present massive drive on NF.



Valedictory Session

Time	Programme	Speakers
11.30-11.35 hrs	Welcome of the guests	
11.35-11.50 hrs	Overview of the Workshop	Dr. S. K. Roy, Director, ICAR-ATARI, Pune
11.50-12.00 hrs	Remarks by co-chair of Technical Session	Dr. Parag Haldankar, DEE, BSKKV, Dapoli
12.00-12.10 hrs	Remarks by co-chair of Technical Session	Dr. D. N Gokhale, DEE, VNMKV, Parbhani
12.10-12.20 hrs	Remarks by co-chair of Technical Session	Dr. C. S. Patil, DEE, MPKV, Rahuri
12.20-12.30 hrs	Remarks by co-chair of Technical Session	Dr. D. B. Undirwade, DEE, PDKV, Akola
12.30-12.40 hrs	Remarks by co-chair of Technical Session	Dr. A. U. Bhikane, DEE, MAFSU, Nagpur
12.40-12.55 hrs	Remarks by Chair of Technical Session	Dr. V. M. Mayande, Former Vice Chancellor, PDKV, Akola
12.55-13.10 hrs	Remarks by Chair of Technical Session	Dr. K. D. Kokate, Former DDG (Agril Extension), ICAR, New Delhi
13.10-13.25 hrs	Address by the Chief Guest	Prof. Sanjeev Sonawane, VC, YCMOU, Nashik
13.25-13.30 hrs	Vote of Thanks	Dr. N. J. Thoke, Head, KVK Nashik-I

Valedictory Session was organized on 14 March 2024 at 11.30 am. Dr. S. K. Roy, Director, ICAR-ATARI, Pune gave the overview of the workshop. He welcomed the guest of honors & chief guests. He suggested that proceeding of Annual action plan & workshop on Natural farming will be uploaded in website for critical comments of publics. He informed the house regarding KVK Golden Jubilee celebrations in this year. He appreciated the presentation and performance of KVK and urged to utilize full budget.

Overall remarks to all the KVKs addressed by the chair and co-chairs are as follows:

Remarks by co-chair of Technical Session- Dr. Parag Haldankar, DEE, BSKKV, Dapoli

- Most of the OFTs were about comparing developed varieties with local varieties.
- In case of varieties with restrictions of testing those varieties need to test under OFTs.



- As far as possible select the technological developed by nearest in the jurisdiction universities & ICAR institutes. No need to go away other states.

Remarks by co-chair of Technical Session- Dr. D. N Gokhale, DEE, VNMKV, Parbhani

- IFS Models needs widespread.
- All technologies should be demonstrated at one place for easy understanding by farmers.
- Focus on promotion of Fruit crops in the jurisdiction.

Remarks by co-chair of Technical Session - Dr. C. S. Patil, DEE, MPKV, Rahuri

- There is need to have brain storming session on natural farming.
- He insisted that scientific beekeeping is a need of hour as it enhance pollination & income of farmer.
- There is need of standardization of inputs used in natural & organic farming.
- Insect pests, disease & non insect pests incidence should be recorded in natural farming, because all the botanicals are not safe for all the insects.

Remarks by co-chair of Technical Session- Dr. D. B. Undirwade, DEE, PDKV, Akola

- He appreciated work & commitments of all KVK Heads.
- He suggested to follow the suggestions & comments given by committee for further improvement.
- He suggested to bring out impact analysis for significant technology, its horizontal spread & socioeconomic changes in the farmers' life.

Remarks by co-chair of Technical Session- Dr. A. U. Bhikane, DEE, MAFSU, Nagpur

- He highlighted importance of animal husbandry & fisheries sector in Agriculture.
- In Maharashtra there is good scope to Dairy, Goatery & Fisheries development.
- Eastern vidharbha should focus on fisheries demonstrations.
- In Maharashtra region can also explore the opportunity of fisheries.
- Western Maharashtra KVKs are already focusing on dairy, but there is a need to use more advance technologies.
- Loose housing system is needed to be popularized in Marathwada region also.
- Conservation of local breeds is needed.
- Focus should be on goat rearing, reducing goat mortality in tribal & dry land areas, deworming and total mix ratio for goat.
- Need to give focus on Backyard Poultry.

Remarks by Chair of Technical Session- Dr. V. M. Mayande, Former Vice Chancellor, PDKV, Akola

- Presentation should be pictorial rather than text.



- The results of OFTs & FLDs, its impact should be assessed in terms of how many OFTs & FLDs are given to farmer's field, its horizontal spread, etc.
- Outcome impact, economic impact & social changes should be visible.
- Capacity building of KVK staff including heads of KVKs is also required.
- In natural farming quality of raw material & standardization of inputs is important.
- Bench mark survey of natural farming should be done & every year physical, chemical & biological properties should be monitored.
- OFTs results should be analyzed.

Remarks by Chair of Technical Session- Dr. K. D. Kokate, Former DDG (Agril Extension), ICAR, New Delhi

- Potential crops have to select for natural farming practice.
 - All KVK are requested to revisit the cost of production.
 - Review of technology is major responsibility of DEEs.
 - Monitor regular SAC meeting, periodical visit to KVK, ensure continuous feedback infrastructure of KVK.
 - KVK should established business model, quality review of KVK, host institute ensure technology backstopping.
-
- Agril. Extension scientist should have OFTs & FLDs case study etc, rainfed fodder production with legumes & non legumes crop.

Address by the Chief Guest- Prof. Sanjeev Sonawane, VC, YCMOU, Nashik

- Behavior study the of farmers in relation to their social life.
- Conduct programme for improve community bonding and understanding between farmers.
- Conduct health campaign for healthy lifestyle.

Dr. N.J Thoke, Head, KVK Nashik-I, proposed vote of thanks for logistic support of host institute & all delegates of chief guest and other dignitaries of the Annual action plan & Natural Farming workshop.



General Suggestions for ALL KVKs:

1. Every KVK should present significant achievements resulted due to KVK interventions through proper documentation, in front of such forums, for its recognition. These significant contributions should be in the form of impact on socio- economic aspects of the clientele.
2. KVKs are doing significant efforts about establishment and promotion & nutrition garden. All KVKs having this intervention should conduct a benchmark study to come up with change in nutritional status of beneficiary farm families. The issues in maintenance of nutrition garden and mitigation mechanism adopted by farm families should also be taken care of.
3. Every KVK should plan, implement and adopt receipt generating activities to become self-sufficient. As, self-sufficiency and sustainability should be prime focus of each KVK, that can be achieved through genesis of long term profit making units.
4. All KVKs should shift its focus from farm activities to non-farm activities for its blending with agriculture, so as to increase overall income of farm families and inclusion of all family members of a farmer in deriving handsome economic gain to contribute in socio-economic development of the farm family.
5. All KVKs involve in interventions related to secondary agriculture such as sericulture, apiculture and mushroom etc. should keep close watch on market related issues and loop holes in the value chain.
6. All KVKs should promote sub-soiler, as the technology is crucial in dryland and rainfed areas for crop sustenance.
7. KVKs should focus and find out the reasons behind failure, non- recognition or non-adoption of some technology in spite of continued and significant efforts of transfer of these technologies by KVKs. The committee referred the attention towards IPM, IPDM technologies, while making this mention.
8. All KVK should identify sustainable agriculture model applicable for the district and should also interpret its applicability to adjoining districts or other parts of the district.
9. KVK having one or many interventions on fruit crops, FPOs, SHGs, Backyard poultries, bio-fertilizer production, nutritional security, high density, milching animals, oilseeds should conduct scientifically appropriate impact studies explaining socio-economic upliftment, beyond outputs and outcome of these technologies



10. All KVK should promote Bio-fortified varieties.
11. Work on protective irrigation.
12. Document 'Failure Stories' where ever necessary.
13. Demonstrate district prevailing crops and technological interventions to serve the need of the farmers to situation specific adoptability and should take care for not promoting any technology which is unfit for existing agro-ecological conditions of the district.
14. Every KVK should conduct a study on 'Use of social media for extension activities'.
15. Every KVK should prepare neat Power Point Presentation. A reference of Presentation prepared by KVK, Akola may be taken into consideration.
16. Produce at-least one short video clip on 'One Best Technology' promoted by KVK and also Identify 'Sustainable Agriculture Model' for the District

Suggestions for ICAR - ATARI, Pune:

1. Organize workshop/training programme on 'Impact Analysis' for Senior Scientist and Heads and SMS Extension Education, probably at Pune.
2. Organize 'Capacity Building Training Programme' for staff of KVKs.
3. For significant achievements of each KVK for presentation in Action Plan and make necessary changes in the presentation template.



- Photographs



Proceedings of Annual Action Plan & Natural Farming Workshop



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Media coverage

Y.C.M.O.U (PRO) Date 15 Mar 2024
Punynagari

पुण्य नगरी शुक्रवार, १५ मार्च २०२४ | नाशिक

मुक्त विद्यापीठात कृषी विज्ञान केंद्राची कार्यशाळा

नाशिक : शेतकऱ्यांच्या गरजा व समस्या ओळखून त्यानुसार कार्यक्रम आखणी व अंमलबजावणी केल्यास तंत्रज्ञानाची यशस्विता वाढेल व पर्यायाने शेतकऱ्यांचे उत्पन्न वाढेल असे प्रतिपादन यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे कुलगुरू प्रा. संजीव सोनवणे यांनी केले. महाराष्ट्र व गोवा राज्यातील कृषि विज्ञान केंद्रांच्या कृती आराखडा कार्यशाळेच्या उद्घाटन समारंभाप्रसंगी प्रमुख पाहुणे म्हणून ते बोलत होते.

मुक्त विद्यापीठाच्या कृषि विज्ञान केंद्रात दि. १३ व १४ रोजी कार्यशाळा आयोजित करण्यात आली. कार्यशाळेत एकूण ५२ कृषि विज्ञान केंद्र हे सन २०२४-२५ या वर्षात राबविल्या जाणाऱ्या कार्यक्रमांचे सादरीकरण करणार आहेत.

या कार्यशाळेसाठी भारतीय कृषि अनुसंधान परिषद, नवी दिल्लीचे उपमहानिदेशक डॉ. राजर्षी रॉय बर्मन, डॉ. पंजाबराव देशमुख कृषि विद्यापीठाचे



माजी कुलगुरू डॉ. व्यंकट मायदे, भारतीय कृषि अनुसंधान परिषदेचे माजी उपमहानिदेशक डॉ. किरण कोकाटे, कृषि तंत्रज्ञान अनुप्रयोग व संशोधन संस्था (अटारी) पुणेचे संचालक डॉ. सुब्रतो रॉय, यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे प्र-कुलगुरू डॉ. जोगेंद्रसिंह बिसेन, तसेच महाराष्ट्रातील सर्व कृषि विद्यापीठांचे विस्तार शिक्षण संचालक उपस्थित होते.

शेतकऱ्यांचे उत्पादन वाढणे गरजेचे आहेच, परंतु त्यासोबत त्यांचे उत्पन्न वाढविण्यासाठी प्रयत्नांची गरज आहे. मुक्त विद्यापीठाच्या कृषि विज्ञान केंद्रामार्फत शेतकऱ्यांसाठी विविध आधुनिक तंत्रज्ञान शेतकऱ्यांसाठी प्रक्षेत्रावर उपलब्ध असून हे दालन शेतकऱ्यांसाठी नेहमीच खुले असल्याचे प्रा. संजीव सोनवणे यांनी सांगितले.

माजी कुलगुरू डॉ. व्यंकट मायदे यांनी 'प्रक्रिया उद्योग आणि मुल्यवृद्धी' यावर भर देताना शेतमालास योग्य भाव मिळण्यासाठी काढणी पश्चात तंत्रज्ञानावर भर देण्याची गरज बोलून दाखवली. उपमहानिदेशक डॉ. राजर्षी रॉय बर्मन यांनी शेतकरी उत्पादक कंपनी यांच्या कार्याचे महत्त्व ओळखून अधिक

बळकटीकरण करण्याची निकड असल्याचे सांगितले.

शास्त्रज्ञ डॉ. टी. राजेश यांनी सुत्रसंचालन तर डॉ. तुषार आरोडे यांनी आभार मानले. कार्यक्रम यशस्वी करण्यासाठी कृषि विज्ञान केंद्राचे प्रमुख डॉ. नितीन टोके, राजाराम पाटील, हेमराज राजपूत, डॉ. श्याम पाटील, डॉ. प्रकाश कदम, अर्चना मोहोड, मंगेश व्यवहारे, हर्षल काळे, निखील शिंदे, सतीश साखरे, राकेश निकम, दत्त मधे, वनीता रोडेणे आणि कृषि विज्ञान केंद्रातील इतर सर्व कर्मचारी यांनी विशेष परिश्रम घेतले.

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गरजा, समस्या ओळखून अंमलबजावणी केल्यास शेतकऱ्यांच्या उत्पन्नात वाढ : कुलगुरू प्रा. सोनवणे

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठात महाराष्ट्र, गोवा राज्यातील कृषी विज्ञान केंद्रांची कार्यशाळा

नाशिक : शेतकऱ्यांच्या गरजा व समस्या ओळखून त्यानुसार कार्यक्रम आखणी व अंमलबजावणी केल्यास तंत्रज्ञानाची यशस्विता वाढेल व पर्यायाने शेतकऱ्यांचे उत्पन्न वाढेल, असे प्रतिपादन यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे कुलगुरू प्रा. संजीव सोनवणे यांनी केले.

मुक्त विद्यापीठा महाराष्ट्र व गोवा राज्यातील कृषि विज्ञान केंद्रांच्या कृती आराखडा कार्यशाळेच्या उद्घाटन समारंभाप्रसंगी प्रमुख पाहुणे म्हणून ते बोलत होते.

यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाच्या कृषि विज्ञान केंद्रात महाराष्ट्र व गोवा राज्यातील कृषि विज्ञान केंद्रांची कृती आराखडा व नैसर्गिक शेती कार्यशाळा १३ व १४ मार्च रोजी आयोजित करण्यात आली होती. कार्यशाळेत ५२ कृषि विज्ञान केंद्र हे २०२४-२५ या वर्षात राबविल्या जाणाऱ्या कार्यक्रमांचे सादरीकरण केले.

कार्यशाळेसाठी भारतीय



कृषि अनुसंधान परिषद, नवी दिल्लीचे उपमहानिदेशक डॉ. राजर्षी रॉय बर्मन, डॉ. पंजाबराव देशमुख कृषि विद्यापीठाचे माजी कुलगुरू डॉ. व्यंकट मायदे, भारतीय कृषि अनुसंधान परिषद, नवी दिल्लीचे माजी उपमहानिदेशक डॉ. किरण कोकाटे, कृषि तंत्रज्ञान अनुप्रयोग व संशोधन संस्था (अटारी) पुणेचे संचालक डॉ. सुब्रतो रॉय, यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठाचे प्र-कुलगुरू डॉ. जोगेंद्रसिंह बिसेन, तसेच महाराष्ट्रातील सर्व कृषि विद्यापीठांचे विस्तार शिक्षण संचालक उपस्थित होते.

कुलगुरू प्रा. सोनवणे म्हणाले की, कृषि विज्ञान केंद्रांनी जिल्ह्यात शेतकऱ्यांसाठी कार्यक्रम राबविताना शेतकरी केंद्रांवर मानून कार्यक्रमांची आखणी करणे गरजेचे आहे. शेतकऱ्यांची मानसिकता, स्थानिक फिक परिस्थिती, शैलीप्रकृत व्यवसाय, तेथील सूर्य हवामान परिस्थिती या सर्वांचा अभ्यास करणे आवश्यक आहे. कार्यक्रमांची आखणी करताना या गोष्टींचा गंभीराने विचार होणे गरजेचे आहे. शेतकऱ्यांचे उत्पन्न वाढणे गरजेचे आहे. शेतकऱ्यांचे उत्पन्न वाढविण्यासाठी प्रयत्नांची गरज आहे. मुक्त विद्यापीठाच्या कृषि विज्ञान केंद्रामार्फत शेतकऱ्यांसाठी विविध आधुनिक तंत्रज्ञान शेतकऱ्यांसाठी प्रक्षेत्रावर उपलब्ध असून हे दालन शेतकऱ्यांसाठी नेहमीच खुले आहे.

डॉ. पंजाबराव देशमुख कृषि विद्यापीठाचे माजी कुलगुरू डॉ. व्यंकट मायदे यांनी प्रक्रिया उद्योग आणि मुल्यवृद्धी यावर भर देताना शेतमालास योग्य भाव मिळण्यासाठी काढणीपश्चात तंत्रज्ञानावर भर देण्याची गरज बोलून दाखवली. तर

भारतीय कृषि अनुसंधान परिषद, नवी दिल्लीचे माजी उपमहानिदेशक डॉ. किरण कोकाटे यांनी हवामान बदलानुसार तंत्रज्ञान विकसन आणि प्रसार यावर भर दिला. उपमहानिदेशक डॉ. राजर्षी रॉय बर्मन यांनी शेतकरी उत्पादक कंपनी यांच्या कार्याचे महत्त्व ओळखून अधिक बळकटीकरण करण्याची निकड असल्याचे सांगितले.

कार्यशाळेसाठी महाराष्ट्रातील ५० तर गोवातील २ कृषि विज्ञान केंद्रातील प्रमुख उपस्थित होते. अटारी, पुणेचे शास्त्रज्ञ डॉ. टी. राजेश यांनी सुत्रसंचालन केले. डॉ. तुषार आरोडे यांनी आभार मानले. कार्यक्रम यशस्वी करण्यासाठी कृषि विज्ञान केंद्राचे प्रमुख डॉ. नितीन टोके, राजाराम पाटील, हेमराज राजपूत, डॉ. श्याम पाटील, डॉ. प्रकाश कदम, अर्चना मोहोड, मंगेश व्यवहारे, हर्षल काळे, निखील शिंदे, सतीश साखरे, राकेश निकम, दत्त मधे, वनीता रोडेणे आणि कृषि विज्ञान केंद्रातील इतर सर्व कर्मचारी यांनी विशेष परिश्रम घेतले.

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ANNUAL ACTION PLAN AND NATURAL FARMING WORKSHOP OF KVKs IN MAHARASHTRA & GOA


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Annual Action Plan and Natural Farming Workshop of KVKs in Maharashtra & Goa

13th-14th March 2024, Nashik

ICAR-Agricultural Technology Application Research Institute, Pune organized a 2-day Annual Action Plan and Natural Farming Workshop of KVKs in Maharashtra and Goa in collaboration with KVK-Yashwantrao Chavan Maharashtra Open University, Nashik I, on 13th&14th March 2024.

Dr. R Roy Burman, Assistant Director General, Agril. Extn., ICAR, briefed the KVKs on the successful implementation of OFT, FLD, documentation, Oilseeds and Pulses model village, One-stop solution, MOUs, and Drone technologies.

 S. K. Roy, Director, ICAR-ATARI, Pune, emphasized the role of ICAR-ATARI Pune, and briefed on website development of KVKs, project account opening, and development of the crop-wise package of practices under Natural Farming.



Dr. V. M. Mayande, Former Vice-Chancellor, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, urged focus on postproduction marketing and value chain. He emphasised the significance of climate resilience technologies, soil, and water resource degradation, market intelligence issues, and the impact of Policy on farmers.

Dr. K. D. Kokate, Former Deputy Director General, Agril. Extn., ICAR, urged the KVKs to conserve Natural resources available on KVK farms, prepare district-specific strategies for increasing the income of farmers, and develop a roadmap to extension functionaries.

Prof. Sanjeev Sonawane, Vice-Chancellor, YCMOU, Nashik, highlighted the importance of AI-based technologies, the wisdom available to farmers, and the multidisciplinary approach of KVKs.

Dr. Parag Haldankar, DEE, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dr. D. N Gokhale, DEE, Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani, Dr. C. S. Patil, DEE, Mahatma Phule Krishi Vidyapeeth, Rahuri, Dr. D. B. Undirwade, DEE, PDKV, Akola, Dr. A. U. Bhikane, DEE, Maharashtra Animal and Fishery Sciences University, Nagpur, graced the occasion with their presence.





**भा.कृ.अनु.प.-कृषि प्रौद्योगिकी अनुप्रयोग अनुसंधान संस्थान, जोन
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