

# Annual Report

2022-2023



**Mahatma Phule Krishi Vidyapeeth**

Rahuri - 413722, Dist. Ahmednagar (Maharashtra)

[www.mpkv.ac.in](http://www.mpkv.ac.in)



## Editorial Board

- Chairman** : **Dr. S. A. Ranpise**  
Director of Extension Education  
Mahatma Phule Krishi Vidyapeeth, Rahuri
- Members** : **Dr. S. D. Gorantiwar**  
Director of Research  
**Dr. S. A. Ranpise**  
Dean, Faculty of Agriculture and Director, Extension Education  
**Shri. Sadashiv Patil**  
Comptroller  
**Er. Milind Dhoke**  
University Engineer
- Compiled by** : **Dr. Pandit Kharde**, Officer Incharge, Communication Centre  
**Dr. Sachin Sadaphal**, Assistant Professor, Communication Centre  
**Dr. Sanjay Todmal**, Assistant Professor, Directorate of Research  
**Dr. Mukund Gund**, Assistant Professor, RCSM COA, Kolhapur  
**Shri. Adinath Andhale**, SRA, Office of Dean, F/A  
**Shri. Sunil Rajmane**, Agri. Assistant, Communication Centre
- Publisher** : **Shri. Arun Anandkar**  
Registrar,  
Mahatma Phule Krishi Vidyapeeth,  
Rahuri, Dist. Ahmednagar,  
Maharashtra (India)

# ANNUAL REPORT

## 2022 - 2023



**MAHATMA PHULE KRISHI VIDYAPEETH**

Rahuri - 413 722, Dist. Ahmednagar (Maharashtra)

[www.mpkv.ac.in](http://www.mpkv.ac.in)





**Dr. P. G. Patil**  
Vice Chancellor,  
Mahatma Phule Krishi Vidyapeeth,  
Rahuri-413 722, Dist.Ahmednagar



## FOREWORD

It gives me an immense pleasure to present an account of the progress of Mahatma Phule Krishi Vidyapeeth, Rahuri for the year 2022-23 in all aspects viz., education, research, extension, administration, civil works, accounts, sports and games and the significant achievements of students in various competitive examinations and the accomplishments of the faculty, scientists and employees. It is the result of the people who have worked to achieve the targets and goals in order that the end beneficiaries augment their income and thereby improve their socio-economic status.

During the year 6832 students received their degrees at the 36th Convocation for Undergraduate, Post-Graduate and Ph. D. Degree Programmes. During the reporting year, 18 students excelled in JRF and 9 students excelled in SRF, whereas, 131 students qualified ICAR-NET in the disciplines of agriculture and allied sciences. Also, two students were selected as ARS. A majority of the students secured scholarships from various agencies. Apart from their wonderful performance in the extra-curricular and co-curricular activities, many students have started their own agri enterprises and majority of the students have joined the Maharashtra Government Services through State Public Service Commission and also joined the Private Sector. A few of them have opted for self-employment. The 36th Convocation of the University was successfully organized during this reporting year. University also hosted 18th State Level Interuniversity Youth festival *Indradhanushya-2022* with real cultural spirit. In this report year, under CAAST-CSAWM project 103 International, National trainings/workshops/webinar/courses were conducted and 5699 students, 2823 faculties and 518 farmers were benefited. The CAAST-CSAWM project received best project award in the country.

In the report year the university has released 4 crop varieties of cereals, 3 agricultural machineries and 69 research recommendations at state level for the benefit of farming community. AINP on Jute and Allied Fibres received 'Excellent Centre Award', whereas, Seed project received Best Centre award in the report year. Seeds and grafts of various field crops and plantation crops were produced and distributed to the farmers.

Mahatma Phule Krishi Vidyapeeth, Rahuri has been the most credible source of information and farm advisory for the farmers of the region. Thousands of farmers visit the Central Campus and other Colleges and Research Stations. The faculty and the scientists of the university guide them through the actual fields and laboratories and convince them regarding the technologies generated by the university for their socio-economic benefit through various programmes and publications. University is implementing innovative extension programmes like ICAR Farmer FIRST, Rabi Day, *Krishi Parayan*, MPKV Idols in MPKV jurisdiction for effective transfer of technology. University scientists took part in state level programme *Maza Ek Divas Mazya Balirajasathi*. The response of the farmers was quite encouraging and satisfactory.

We duly acknowledge with thanks the guidance and help of His Excellency Hon'ble Governor of Maharashtra and the Chancellor of the university, Hon'ble Minister for Agriculture and Pro-Chancellor of the university, the Director General of Indian Council of Agricultural Research, New Delhi, members of the Executive Council, Academic Council and other statutory bodies of the University.

(P. G. Patil)





# INDEX

Sl. No.	Contents	Page No.
1.	Salient Achievements	1
	1.1 Education	1
	1.2 Research	6
	1.3 Extension Education	6
2.	Education	8
3.	Research	35
4.	Extension Education	49
5.	Major Events	60
6.	Awards	90
7.	Human Resource	94
	7.1 Executive Officers	94
	7.2 Executive Council Members	94
	7.3 Academic Council Members	96
	7.4 Academic Officers	99
	7.5 Academic Staff / Heads of Departments	101
	7.6 Other Officers	102
	7.7 University Manpower	103
8.	Campus Development Activities	111
9.	Financial Status of University	117







## 1. Salient Achievements

Mahatma Phule Krishi Vidyapeeth, Rahuri established on 29<sup>th</sup> March, 1968 has been a center of human resource development to meet the growing demands of the state as well as the nation for trained man power specialized in Agriculture. This is one of the four Agricultural universities in the state with its jurisdiction spread over Western Maharashtra covering 10 districts, viz., Kolhapur, Sangli, Satara, Solapur, Pune, Ahmednagar, Nasik, Dhule, Jalgaon and Nandurabar.

The unique feature of this University's jurisdiction is that, it has extreme agro-climatic conditions of farming. Four out of the nine agro-climatic zones of Maharashtra fall in this region. These are Western Ghat Zone, Sub-Mountain Zone, Western Maharashtra Plain Zone and Scarcity Zone. The total geographical area distributed among the ten districts of this University is 116.12 lakh ha (37.5 percent of total geographical area of the state). Out of this, 72.45 lakh ha area is under cultivation. The total irrigated area is 13.17 lakh ha (18.17 percent). However, a large area of this University comes under drought prone zone (approx. 80.00 percent of the state). The main objective of MPKV is to co-ordinate Agril. Education, Research and Extension activities.

### 1.1 Education

Mahatma Phule Krishi Vidyapeeth is imparting education from diploma to doctoral level in the field of agriculture and allied faculties through its constituent and affiliated schools and colleges. Some of the salient educational activities and achievements are as given below

#### • Major Events Celebrated

1. Mahatma Phule Jayanti was celebrated on April 11, 2022 at various constituent colleges and Central Campus, MPKV, Rahuri.
2. Bharatratna Dr. Babasaheb Ambedkar Jayanti was celebrated on April 14, 2022 at various constituent colleges and Central Campus, MPKV, Rahuri.
3. The International Day of Yoga was observed on June 21, 2022 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri.
4. Massive Tree Plantation programme was conducted on July 04, 2022 at Central Campus under the Chairmanship of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri and all the constituent colleges under the ambit of the University.
5. 'Har Ghar Tiranga' campaign has been organized during August 12-17, 2022 at college level and at resident buildings under the jurisdiction of MPKV, Rahuri. Door to door awareness programme was also initiated by the University volunteers.
6. Teachers Day was celebrated on September 05, 2022 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri.
7. The Constitution Day was celebrated at Central Campus, MPKV, Rahuri and all the constituent colleges on November 26, 2022.
8. Mahatma Phule Punyatithi was celebrated on November 28, 2022 at Central Campus, MPKV, Rahuri and all the constituent colleges.
9. The Birth Anniversary of Chattrapati Shivaji Maharaj was enthusiastically celebrated on February 19, 2023 at Central Campus, MPKV, Rhauri and all constituent colleges.
10. International Women's Day was celebrated on March 08, 2023 at Central Campus, MPKV, Rahuri and all constituent colleges.
11. Other activities viz., Republic Day, Maharashtra Din and International Labour Day and Independence Day were celebrated.



● **Major Events organized**

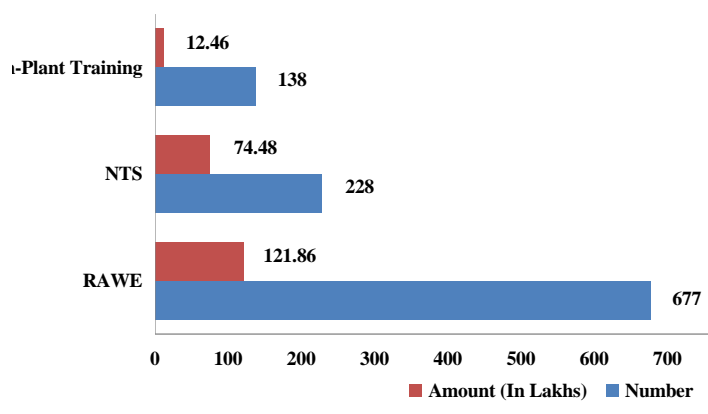
1. Indigenous Cattle Research and Training Centre, College of Agriculture, Pune organized Exhibition on Indigenous Cattle during May 27-29, 2022 at College of Agriculture, Pune. Inaugural function of exhibition was held on May 27, 2022 at the auspicious hands of the then Hon'ble Deputy Chief Minister of Maharashtra Shri. Ajitdada Pawar and under the Chairmanship of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri.
2. Inaugural function of Krishi Vidyan Sankul at Kashti, Malegaon was held on July 30, 2022 at the auspicious hands Hon'ble Chief Minister, Maharashtra Shri. Eknathji Shinde in presence of Hon'ble Former Minister of Agriculture and Ex. Servicemen Welfare, Government of Maharashtra Shri. Dadaji Bhuse.
3. The unveiling of Oil Painting of 'Rajmata Vijayaraje Sindhia' at the entrance of Rajmata Vijayaraje Sindhia Girls hostel constructed by Bhaskaracharya Pratishtan, Kolhapur through CSR at RCSM, College of Agriculture, Kolhapur was organized at the hands of Hon'ble Shri. Jyotiraditya Sindhia, Union Minister, Civil Aviation and Steel on September 03, 2022. Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri presided over the function. Hon'ble Shri. Chandrakantdada Patil, Minister of Higher and Technical Education, Textiles and Parliament Work; Hon'ble Shri. Dhanajay Mahadik, MP (Rajyasabha); Hon'ble Shri. Sanjay Mandlik, MLA; Hon'ble Shri. Raturaj Patil, MLA were present on this occasion.
4. Live Broadcasting of PM Kisan Sanman Sammelan was organized at various constituent colleges during October 17-18, 2022 for students, faculty and farmers.
5. The University hosted 18th State Level Inter University Youth Festival Indradhanushya-2022 at Central Campus during November 5-9, 2022. The inauguration was held at the auspicious hands of Shri. Radhakrishna Vikhe Patilji, Hon'ble Minister of Revenue, Government of Maharashtra in presence of Shri. Bharat Ganeshpure, veteran Marathi Actor with other dignitaries and University authorities. More than 800 students from 21 universities of the state were participated in this mega event.
6. Rahuri Chapter of the Indian Society of Soil Science organized 86th Annual Convention of Indian Society of Soil Science during November 15-18, 2022 at Central Campus, MPKV, Rahuri.
7. World Soil Day was celebrated at Central Campus on December 05, 2022 under the Chairmanship of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri in presence of Padmashri Shri. Popatrao Pawar, Hon'ble Executive President, Adarsha Gaon Sankalpa and Prakalpa Samittee, M.S. as a Chief Guest.
8. The University has organized MPKV Alumni Carnival of Leaders of Industry and Entrepreneurs Meet and Exhibition (CLIMEX) during December 20-22, 2022 at Central Campus. The event comprised of mega alumni meet of MPKV alumni, motivational speeches of successful entrepreneurs and industry leaders for students on campus, technical sessions for farmers, exhibition of various industries and job fair. This is an attempt to bring all alumni, entrepreneurs, industry leaders, policy makers, students and farmers together and give recognition to the services of MPKV alumni entrepreneurs. This mega event was first of its kind in the history of MPKV which was sponsored by Alumni entrepreneurs and industry leaders.



9. National Consumer Day was celebrated at College of Agriculture, Pune in collaboration with Ministry of Agriculture and Farmers Welfare and Directorate of Marketing and Inspection, Govt. of India on December 24, 2022. Organized one day exhibition of AGMARK Certified Products.
  10. 36th Convocation of the University was held on January 06, 2023 at Central Campus, MPKV, Rahuri. His Excellency Shri. Bhagat Singh Koshyari, Governor of Maharashtra and Chancellor, MPKV, Rahuri presided the function. Padma Vibhushan Dr. Anil Kakodkar, Former Chairman, Atomic Energy Commission, Government of India was the Chief Guest and the Guest of Honour for function was Shri. Abdul Sattar, Hon'ble Pro Chancellor, Mahatma Phule Krishi Vidyapeeth, Rahuri and Minister of Agriculture, Government of Maharashtra. Total 6832 degrees were conferred to students. Padmashri Shri. Popatrao Pawar, Hon'ble Executive President, Adarsha Gaon Sankalpa and Prakash Samittee, M.S. and Dr. C. D. Mayee, Hon'ble Former President, Agricultural Scientist Recruitment Board, New Delhi were conferred with "Doctor of Science" degree.
  11. Blood Donation Camp was organized at College of Agriculture, Pune and Dhule. 138 donors including faculty, staff and student donated the blood.
  12. All constituent colleges under the jurisdiction of MPKV, Rahuri organized 'Maza Ek Diwas Mazya Balirajasathi' campaign under the guidance of Hon'ble Vice Chancellor, MPKV, Rahuri. Under this campaign, agricultural scientists visited the villages under the jurisdiction of MPKV and discussed with farmers about various cropping systems, various problems faced by the farmers and their solutions.
  13. International Year of Millets 2023 is being celebrated enthusiastically under the jurisdiction of the University. Various guest lectures, programmes are being organized to create awareness about health and nutritional benefits of millets among the faculties, staff, students and farmers.
- **Capacity Building**
    1. Under capacity building programme, 328 faculty members and 55 students proceeded for Winter School / Summer School / Refresher Courses, National / International Conference / Seminars / Conclave / Symposia through online or offline mode during the year 2022-23.
    2. Dr. U. S. Surve, Professor of Agronomy, Post Graduate Institute, Rahuri attended international training programme on Agroecology at West African country Benin during September 09-18, 2022.
  - **Workshops/Seminar/Trainings Organized**
    1. One-year training programme on "Protected Cultivation of Flowers and Vegetables' for Agri. Diploma students was organized by College of Agriculture, Pune with 26 beneficiaries.
    2. Dr. A S College of Agricultural Engineering and Technology, Rahuri organized 35 training programmes on various aspects of agriculture and allied fields with 4595 beneficiaries.
    3. Twenty-two training programmes on various aspects of agriculture and allied fields were conducted at Post Graduate Institute, MPKV, Rahuri with 4138 beneficiaries.
    4. RCSM College of Agriculture, Kolhapur conducted 19 training programmes under SC-SP Plan on various aspects of agriculture and allied fields with 1175 beneficiaries.



- **Students Development**
- **Student READY/NTS Beneficiaries**



- **Students Achievements in JRF/SRF/NET/Competitive Exams/Others**

- Eighteen students have achieved success in JRF, 9 in SRF and 131 in NET.
- Ph. D. Scholar Mr. K. G. Teli (2020/06) of Agronomy Department, Post Graduate Institute, Rahuri and Ms. R. B. Kukade (2020/02) of Agricultural Process Engineering Department, Dr. A. S. College of Agricultural Engineering and Technology, Rahuri were selected as Agricultural Research Scientist (ARS) during March, 2022.
- Team of Dr. A. S. College of Agricultural Engineering and Technology, Rahuri bagged Best Design Award in SAE TIFAN-2022 for development of Self Propelled Onion Harvester.
- Four National Service Scheme (NSS) volunteers of the University were awarded as State Level Best NSS Volunteer on April 27, 2022 at the auspicious hands of Shri. Uday Samant, the then Hon'ble Minister of Higher and Technical Education, Maharashtra.
- Twenty-five students of College of Agriculture,

Pune and College of Horticulture, Pune bagged prizes in Fruits, Flowers and Vegetables Competition and Exhibition 2023 organized by Pune Municipal Corporation, Pune during February 11-12, 2023.

- **Memorandum of Understandings**

#### A. International

S. N.	Name of the Organization	Year of Signing	Purpose
1	Ministry of Tourism, Israel	June 07, 2022	To promote Indo-Israel Student Experiential Programme
2	Murdoch University, Murdoch, Australia	July 14, 2022	Development and promotion of education, research, training, curriculum and course design; faculty and student exchange; capacity building
3	ECOCERT, France	October 08, 2022	PG Diploma in Organic Certification

#### B. National

S. N.	Name of the Organization	Year of Signing	Purpose
1	FMC India Private Limited, Mumbai	April 21, 2022	Fellowship for Post-graduate students research
2	Indian Institute of Technology, Kanpur, Uttar Pardesh	July 01, 2022	Establishment of Centre of Excellence at College of Agriculture, Pune
3	Indian Institute of Sugarcane Research, Lucknow, Uttar Pardesh	July 13, 2022	Assistance in Post-graduate students research, training and capacity building



4	College of Agriculture, Pune and MITCON Consultancy & Engineering Services Private Limited, Pune	August 26, 2022	Collaborative research and development in the field of soil organic carbon fixation; soil, air and water pollution; Agriculture & solid waste management
5	Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan	November 24, 2022	Post-graduate Agricultural Education
6	Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad	January 19, 2023	Development of education, research, innovation, entrepreneurship; faculty and student exchange; capacity building

## • Awards and recognition

### • A) Faculty

- Dr. B. D. Bhakare, Head, Department of Soil Science and Agril. Chemistry, Post Graduate Institute, Rahuri elected as a Fellow of Indian Society of Soil Science, New Delhi during 86th Annual Convention of Indian Society of Soil Science held on November 15-18, 2022 at MPKV, Rahuri.
- Dr. S. M. Nalawade, Head, Department of Farm Machinery and Power Engineering, Dr. A. S. College of Agricultural Engineering and Technology, Rahuri bestowed with Commendation Medal-2022 by Indian Society of Agricultural Engineers (ISAE), New Delhi for service in Farm Machinery and Power.
- Dr. U. S. Surve, Professor of Agronomy,

Post Graduate Institute, Rahuri elected as a Counselor for Indian Society of Agronomy, New Delhi for two years tenure 2022-2024.

- Dr. S. V. Korse, Associate Professor, Department of Plant Pathology and Agril. Microbiology, Post Graduate Institute, Rahuri elected unopposed as Zonal President (West Zone) of Indian Phytopathological Society, New Delhi.
- Dr. S. S. Dhumal, Associate Professor of Horticulture, RCSM College of Agriculture, Kolhapur elected as a Fellow and Permanent Honorary Board Member of 'Society for Advancement of Human and Nature', Dr. Y. S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh.
- More than 20 scientists of the University were felicitated by auspicious hands Shri. Devendra Fadanvis, Hon'ble Deputy Chief Minister, Maharashtra in Presence of Shri. Amir Khan, and Smt. Kiran Rao, Founder Pani Foundation on March 12, 2023 at Balewadi Sankul, Pune for their contribution in 'Digital Shetishala' online programme during Kharif -2022 to enhance the income of pearl millet farmers group from Maharashtra.

### B) Institute

- Patent has been granted (20 years) for an invention by Department of Food Science & Technology, MPKV, Rahuri for Preparation of Cookies and Nankatai products.
- Pesticide Residue Laboratory, Department of Agricultural Entomology, MPKV, Rahuri has been assessed and accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL), Gurugram, Haryana



(February 21, 2022 to February 20, 2024).

- Mahatma Phule Krishi Vidyapeeth, Rahuri is third Agricultural University in the country to receive recognition from All India Council for Technical Education, New Delhi to B. Tech. (Agril. Engg.) degree programme offered at Dr. A S College of Agricultural Engineering and Technology, Rahuri (July 14, 2022).
- Director General of Civil Aviation (DGCA), Ministry of Civil Aviation, Government of India, has recently authorized the University as RPTO for conducting 'Remote Pilot Training Certificate Course'. The MPKV is the First Agricultural University in India to be recognized as RPTO (September 28, 2022).
- **New Constituent College/Agriculture Polytechnic Sanctioned**
  - Government of Maharashtra has sanctioned new constituent Agriculture, Horticulture and Agricultural Engineering and Technology college at Kashti, Tal. Malegaon, Dist. Nashik from the academic year 2022-23.
- **New Academic Programme**
  - Center for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) under NAHEP-ICAR has started the Post-Doctoral programme.

## 1.2 Research

1. The University has released four new varieties i.e. Rice: Phule Kolam (VDN-1832), Rice - Phule Super Pawana (IGP-13-12-19), Maize hybrid Phule Umed (QMH 1701), Maize Hybrid Phule Champion (QMH-1819)
2. The University has released three Agri. Farm

Implement - Phule Juice Extractor, Phule sugarcane leaf detrasher cum shredder and Phule groundnut decorticator cum sorter.

3. The University has passed 69 recommendations on various aspects for the benefit of the farming community.
4. The University has produced 33770 quintals of seed.
5. A total of 11.05 lakh planting material of fruit crops and ornamental plants was produced by University.
6. A total of 400 litres and 13.22 MT of biopesticides and 97.43 MT and 8253 litres of biofertilizers and 50,000 litres of micronutrients were produced by various centers of the University.

## 1.3 Extension Education

1. 1. About 657 training programmes for farmers, farm youth, farm women, staff of development departments and interaction training programme between farmers and scientists were organized by the Regional Extension Centres, District Extension Centres, Agri. Research Stations and Krishi Vigyan Kendras.
2. 2. A total of 79 monthly district workshops were organized and 1785 were the beneficiaries.
3. 3. A total of 410 method demonstrations, 647 Result demonstrations, 927 Front line demonstrations were conducted and 5522 farmers were benefitted from these demonstrations.
4. 4. During the year different 1926 group discussions, meetings, field visits / shivar pheries, field days, Farm and Home visits, Farmers rallies, Agril. Exhibition, Study tours were organized for promoting agricultural technologies to the end users.
5. 5. Diagnostic and surveillance team has visited 510places to guide the farming community.
6. 6. Different publications viz., Krishi Darshani

(21000), Shri Sugi (1500), Folders (15), booklets, MPKV e-Varta were published by the University and made available to the end users.

7. 7. The University scientists attended 51293 Help line calls and guided the farmers on major issues.
8. 8. In the annual year 2014 water and soil samples, 253 pests samples, 188 diseases samples were tested by the University scientists along with necessary guidance.
9. 9. Total 167400 farmers were given advisory through SMS.



## 2. Education

Mahatma Phule Krishi Vidyapeeth, Rahuri is the first state agricultural University in Maharashtra established in 1969 having its jurisdiction in 10 districts of Western Maharashtra. Director of Instruction shoulders the responsibility of leading the education of the University. Director of Instruction is responsible for preparing the academic programme as regards to courses offered, curricula and co-ordinate and guide education, in all the constituent and affiliated colleges, technical schools of the University in close co-operation with the Deans of Faculties, Head of Departments and other officers.

The mandate is to provide diploma, graduate, post-graduate and doctorate level quality education in agriculture and allied fields for skill development and producing the competent human resource.

### Quality Education for Competent Graduates

The University offers various educational programmes viz., Bachelors degree programme in Agriculture, Horticulture, Agriculture Engineering, Food Technology, Agri-Business Management, Biotechnology, Diploma in Agriculture Technology, Diploma in Agriculture Polytechnic and Masters degree programme in 20 disciplines of Agriculture and 04 disciplines of Agriculture Engineering and Doctoral degree programme in 17 disciplines of Agriculture and 04 disciplines of Agriculture Engineering.

There is a Post-Graduate Institute at the Central Campus, Rahuri for M.Sc. and Ph.D. programmes, eight Colleges of Agriculture at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar, Halgaon and Kashti for B.Sc. (Hons) Agriculture, two Colleges of Horticulture at Pune and Kashti for B.Sc. (Hons) Horticulture, one each College of Agri. Business Management

and Food Technology at Kashti, Malegaon for B.Sc. (Hons) Agri. Business Management and B.Tech. (Food Technology), respectively and two Colleges of Agricultural Engineering at Rahuri and Kashti for B.Tech. (Agril. Engg.). Further, Dr. AS College of Agricultural Engineering and Technology, Rahuri also offers M.Tech. (Agril. Engg.) and Ph.D. programmes. The Post-Graduate programme is also started at College of Agriculture, Pune, Dhule and Kolhapur leading to M.Sc.(Agri.) degree and Ph.D. programme in Agril. Meteorology at College of Agriculture, Pune. The new PG degree course in Agricultural Business Management i.e. M.B.A. (Agri.) is started at Colleges of Agriculture, Pune.

### Educational Programmes

#### 2.1 Bachelor's Degree Programme

The University has fourteen under-graduate constituent agriculture and allied colleges with intake capacity of 1104 students and 61 affiliated unaided agriculture and allied colleges with intake capacity of 5090 students.

#### B. Sc. (Hons) Agriculture

B.Sc. (Hons) Agriculture is a four-year degree course spread over 8 semesters with 183 credit load. Total 143 course credit of B.Sc. (Hons) Agriculture degree is completed up to first six semesters. In seventh semester, Rural Agricultural Work Experience (RAWE) & Agro-Industrial Attachment programme of 20 credits is implemented, which exposes students to the rural life and farming situations and the constraints in adoption of modern technology by the farmers. In eighth semester Experiential Learning programme is implemented under which the students undergo Hand-on-Training (HoT) in any two modules of 10 (0+10) credits. Under this University, eight constituent colleges





and twenty-seven affiliated agricultural colleges offer B.Sc. (Hons) Agriculture degree programme.

### **B. Sc. (Hons) Horticulture**

B.Sc. (Hons) Horticulture is a four-year degree course spread over 8 semesters. The total credit requirement for the B.Sc. (Hons) Horticulture degree Course is 182. In seventh and eighth semester Students READY (RHWE) programme is implemented in addition to placement in industry. Two constituent college and five affiliated horticultural colleges of the University implements this program.

### **B. Tech. (Agril. Engg.)**

B. Tech. (Agril. Engg.) degree programme is a four year year degree course spread over 8 semesters with 183 credits. Students READY (RHWE) programme is implemented with the components In- Plant Training (0+10 credits), Industrial Attachment (0+10 credits), Experiential Learning (0+10 credits), Project Planning & Report Writing (0+10 credits) and Seminar (0+1 credits). This programme is offered at two constituent and eight affiliated colleges of the University.

### **B. Sc. (Hons) Agril. Business Management**

B. Sc. (Hons) Agril. Business Management degree programme is a four year degree course spread over 8 semesters. The course is specially designed by considering all the best courses of various institutes and incorporating the requirements of agricultural sector in general and that of management aspects in particular, it is expected that pass outs will be able to deliver their expertise in financial marketing and management skills. Out of total 180 credits, 140 course credits are completed upto sixth semester. In seventh semester, 20 credits are recommended for any two module of 10 (0+10) credits Experiential Learning. In eighth semester, students are

offered 20 credits for In-plant Training. The programme is implemented at one constituent and nine affiliated colleges of the University.

### **B. Tech. (Food Technology)**

B. Tech. (Food Science and Technology) is a four year degree course spread over 8 semesters. Out of total 183 credits, 145 course credits are completed up to sixth semester. In seventh semester 18 (3+15) credits are recommended for Students READY which includes Experiential Learning modules I & II of 7 (0+7) credits each and 4 (0+4) credits for Research Project & Seminar. In eighth semester, Students READY-In-plant training for 20 weeks in food industries / Institutes for 20 (0+20) credits is offered to the students.

The basic objective is to provide the skilled manpower for commercial food processing unit, R and D organizations, research and education institutes and quality control departments and to generate self employment opportunities to the youth in setting up of food processing units. The programme is implemented at one constituent and six affiliated colleges of the University.

### **B. Tech (Biotechnology)**

B. Tech (Biotechnology) is a 4 year degree course spread over 8 semesters having 186 credits. Since biotechnology is integrated science of various disciplines, this UG programme comprises four departments like Animal Biotechnology, Plant Biotechnology, Microbial & Environmental Biochemistry and Bioinformatics.

In VII semester Students READY- Experiential Learning Programme of 20 (0+20) credits if offered for specialized skill development. During VIII semester Student READY- Project Formulation & Entrepreneurial Development in Biotechnology (on/



off campus) of 20 (0+20) credits is offered. There are six affiliated Biotechnology colleges under MPKV, Rahuri for developing human resource.

## 2.2 Master's Degree Programme

The University offers master's programme at Post Graduate Institute, Rahuri, College of Agriculture, Pune, Kolhapur and Dhule; and Dr. A. S. College of Agricultural Engineering & Technology at Rahuri with an intake capacity of 373 students per year.

### **M. Sc. (Agri.) / M. Sc. (Hort.) / M. Sc. (Agril. Biotechnology) / M.B.A. (Agri.) / M. Tech. (Agril. Engg.)**

The M. Sc. (Agri.) degree course is a two years residential programme spread over 4 semesters. The credit load for the course is 70. Out of this, 40 credits are allocated for course work in which a student has to learn different courses appropriate to his specialization. The course work is split in the Major Courses (20 credits), Minor Courses (08 credits), Supporting Courses (06 credits), Common Courses (05 credits), Seminar (01 credit), thus making the 40 credits. In addition, six non-credit compulsory courses are allotted. For dissertation, 30 credits are allocated for research project. Each student has an advisory committee, which assists the students in selection of courses and the research topic. The student has to undertake a field research experiment and submit the dissertation as partial requirement for the award of the degree. The intake capacity of students for M. Sc. (Agri.) Degree is 169 at Post Graduate Institute, MPKV, Rahuri, 96 at College of Agriculture, Pune, 54 at College of Agriculture, Kolhapur & 28 at College of Agriculture, Dhule. The intake capacity for M. Tech. (Agril. Engg.) at Dr. AS College of Agril. Engineering and Technology, Rahuri is 16.

## 2.3 Doctoral Degree Programme

The Post Graduate Institute, Dr. A. S. College of Agricultural Engineering & Technology, Rahuri offers the doctoral level programmes in agricultural science and engineering, respectively with an intake capacity of 80 students per year.

### **Ph. D. (Agriculture and Agricultural Engineering)**

The Ph.D. degree programme is of three years with residential requirement spread over six semesters. The credit requirement for the course is 100; out of which 25 credits are for course work and 75 credits for research work. The course work is split into Major Courses (12 credits), Minor Courses (06 credits), Supporting Courses (05 credits), Seminar (02 credits), thus making the 25 credits. Research is the main component of Ph.D. degree programme where in student undertake appropriate need based research by way of conducting field experiments or collection of data or both to fulfill his research objectives. Two experts from any of the SAUs in India independently evaluate the Ph.D. Dissertation. Each student has an advisory committee, which assists the student in the selection of courses and the research topic. The intake capacity of students for Ph.D. Degree programme in Agriculture is 66 at Post Graduate Institute, MPKV, Rahuri & 02 at College of Agriculture, Pune. Further, the intake capacity of students for Ph.D. Degree programme in Agricultural Engineering at Dr. AS College of Agril. Engineering and Technology, Rahuri is 12. In addition, in-service candidates are allotted admission for Ph.D. degree programme.

## 2.4 Diploma

The University offers Diploma in Agriculture Technology through its nine constituent and fifty-four

affiliated Agricultural Technical Schools with intake capacity of 60 students per year. Further, three years six semester pattern english medium Agriculture Polytechnic Diploma is offered through its one constituent and fourteen affiliated Agricultural Polytechnics with intake capacity of 40 students per year.

## 2.5 Certificate Course

The University also offers Gardeners (Mali) Training Course of one-year duration through its two constituent and three affiliated centers with annual intake of 40 students. Further, certificate course on Polyhouse Technology of one year duration is offered at High-Tech Floriculture Project, College of Agriculture, Pune

## Faculty

There are two faculties to impart Agriculture education in this university namely

- Faculty of Agricultural Science
- Faculty of Agricultural Engineering

### Faculty of Agricultural Science

Faculty of Agricultural Science is one of the faculties of the University. This faculty comprises of various 14 departments viz., Agricultural Botany, Agricultural Economics, Agricultural Entomology, Agricultural Extension & Communication, Agricultural Meteorology, Agronomy, Animal Husbandry and Dairy Science, Biochemistry, Food Science and Technology, Horticulture, Irrigation Water Management, Plant Pathology and Agricultural Microbiology, Soil Science and Agricultural Chemistry and Statistics.

This faculty is responsible for the various academic programmes viz., Under-graduate [B.Sc. (Hons) Agriculture, B.Sc. (Hons) Horticulture, B.Sc. (Hons) ABM, B. Tech. (Agricultural Engineering),

Post-graduate (M.Sc. (Agri.) and Ph.D.), and Diploma in Agriculture (Agricultural Technology).

### Faculty of Agricultural Engineering

Faculty of Agricultural Engineering is one of the faculties of the University. This faculty comprises of various 5 departments viz., Agricultural Process Engineering, Farm Machinery and Power Engineering, Farm Structure and Rural Electrification, Irrigation and Drainage Engineering and Soil and Water Conservation Engineering.

This faculty is responsible for the various academic programmes viz., Under-graduate [B.Sc. (Hons) Agriculture, B. Tech. (Agricultural Engineering)], Post-graduate [M.Tech. (Agril. Engg.) and Ph.D.]. The faculty of Agricultural Engineering meets the educational needs in various fields viz., micro irrigation technologies, polyhouse, drainage engineering, groundwater, wells and pumps, soil and water conservation, watershed management, grain, fruit and vegetable storage and processing, unconventional energy sources, tractors, farm machinery and implements, computer applications, remote sensing and GIS.

### Constituent Colleges

The University has fifteen constituent colleges out of which eight colleges of agriculture sciences located at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar, Halgaon and Kashti, Malegaon; two agricultural engineering colleges at Rahuri and Kashti, Malegaon; two colleges for horticulture at Pune and Kashti, Malegaon; one each agriculture business management and food technology college at Kashti, Malegaon. The University has the Post Graduate Institute at its Central Campus of Rahuri.





## College of Agriculture, Pune



The historical College of Agriculture, Pune, is one of the first five agricultural colleges established in India, celebrated its centenary year in 2007. It has an annual intake capacity of 190 students for under-graduate programme. Post-graduate programme was started from the year 1984. The intake capacity of M.Sc. (Agri), M.Sc. (Horti.) and MBA (Agri.) is 60, 6 and 30 respectively. Ph.D. is offered in Agriculture Meteorology with an intake capacity of two students per year.

It offers Post-graduate degree programme in various subjects along with the recently started MBM (Agri.) degree. The college has a Hi-tech Floriculture Project, All India Coordinated Bio-control Project, Centre for Advanced Studies in Agro-meteorology, Biological Nitrogen Fixation Scheme, Agri-clinic and Agri-business Training Centre, All India Coordinated Mushroom Improvement Project, Fish & Prawns Farming Unit, Medicinal & Aromatic Plants Project and a well equipped nursery.

## College of Agriculture, Dhule



Dhule is the northern district of Western Maharashtra region. This college was established in the year 1960 and has an annual intake capacity of 128 students for under-graduate programme. Post-graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri.) and M.Sc. (Horti.) is 24 and 04 respectively.

The college has a beautiful campus with spacious buildings for each department. The college also serves as a regional research centre for the northern part of the Maharashtra, with a focus on research on dry farming, cotton and groundnut. The college has the units, Viz. Vermi compost, Bio-fertilizers, Bio-pesticides, Soil and Irrigation Water Analysis Lab, Organic Farming Demonstration, Seed Production, Horticultural Nursery, Cattle, Sheep and Goat, Watershed Field demonstration, Irrigation Systems Demonstration etc.

## Rajarshi Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur



Kolhapur, the southernmost district town of Maharashtra State is one of the agriculturally advanced districts of the country with an excellent network of agro based industries and co-operative organizations. This college is located on the Pune-Bangalore National Highway. The college was established in the year 1963 and was initially affiliated to the Shivaji University, Kolhapur. Subsequently, it became the

constituent college of the University in 1969. The college has celebrated its Golden Jubilee in the year 2013. Later, in 2017 college is renamed as Rajarshi Chhatrapati Shahu Maharaj College of Agriculture. This college has annual intake capacity of 190 students for under-graduate programme. It offers post-graduate degree programme in various subjects. Post-graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri.) and M.Sc. (Hort.) is 48 and 06, respectively.

The college has projects such as vermicompost, bio-fertilizers, bio-pesticides, Phule soft drinks, Soil and Irrigation Water Analysis Lab, one time controlled land application of Spent Wash, Fruit Crop Nursery for supply of seedlings and crop seeds, Soil and Water Engineering Field Laboratory are setup to aid students for learning.

### College of Agriculture, Karad



College of Agriculture, Karad was established on the occasions of Birth centenary year (2013) of Hon. Ex-Chief Minister of Maharashtra Shri. Yashwantraoji Chavan. The College of Agriculture, Nandurbar started from the year 2013-14 with the intake capacity of 60 students.

This college offers degree programme in B.Sc. (Hons) Agriculture with the intake capacity of 60 students. The college has newly established Administrative building, Library, Boys' and Girls' hostels, Students Amenity Complex, Playground and Instructional Farm.

### College of Agriculture, Nandurbar



As per the initiatives and decision to establish Government Agriculture College in Scheduled Tribes populated districts (i.e. Nandurbar & Gadchiroli) under Tribal Sub Plan Scheme, Government of Maharashtra Resolution dated 19th June, 2013 and University Resolution dated 06/08/2013 Government College of Agriculture, Nandurbar started w.e.f. August 01, 2013. 80 % seats are reserved for Scheduled Tribe's students.

This college offers degree programme in B.Sc. (Hons) Agriculture with an annual intake capacity of 60 students per year. The college has newly established Administrative building, Library, Boys' and Girls' hostels, Students Amenity Complex, Playground and Instructional Farm.

### College of Agriculture, Muktainagar

The College of Agriculture, Muktainagar was established college in the year 2015. The academic programme for B.Sc. (Hons) Agri degree course was started during the year 2015-16 with intake capacity of 60 students. The college offers degree programme in B.Sc. (Hons) Agriculture. In addition to teaching, the activities like tree plantation, rejuvenation of old trees and complaints regarding farmers were also carried out by the staff.

### Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon

The College of Agriculture, Halgaon was started from the academic year 2018-19 with an annual intake





capacity of 60 students per year. It offers under graduate B.Sc. (Hons) Agriculture degree programme.

### **College of Agriculture, Kashti, Malegaon**

The College of Agriculture, Kashti, Malegaon was started from the academic year 2022-23 with an annual intake capacity of 60 students per year. It offers under-graduate B.Sc. (Hons) Agriculture degree programme.

### **College of Horticulture, Pune**



The college was established in the campus of College of Agriculture, Pune in 1984. The annual intake capacity is 32 students. It offers under graduate B.Sc. (Hons) Horticulture degree programme. The college has its own building with well-developed classrooms, laboratories, LAN, computer & internet facilities.

### **College of Horticulture, Kashti, Malegaon**

The College of Horticulture, Kashti, Malegaon was started from the academic year 2022-23 with an annual intake capacity of 60 students per year. It offers under- graduate B.Sc. (Hons) Horticulture degree programme.

### **College of Agriculture Business Management, Kashti, Malegaon**

The College of Agriculture Business Management, Kashti, Malegaon was started from the academic year 2020-21 with an annual intake capacity of 60 students per year. It offers under- graduate B.Sc. (Hons) Agri. Business Management degree programme.

### **College of Food Technology, Kashti, Malegaon**

The College of Food Technology, Kashti, Malegaon was started from the academic year 2021-22 with an annual intake capacity of 40 students per year. It offers under-graduate B. Tech. (Food Technology) degree programme.

### **Dr. Annasaheb Shinde College of Agricultural Engineering & Technology, Rahuri**



The college was established in 1969 after realizing the need for agricultural engineers for soil conservation, irrigation management, farm mechanization and post-harvest processing. In 1996, the college was named after the former Union Minister of State for Agriculture and the architect of green revolution in India, Late Dr. Annasaheb Shinde. The college offers the under-graduate programme in Agricultural Engineering with intake capacity of 64 and post-graduate programme with intake capacity of 16 in four different disciplines. Dr. A. S. College of Agril. Engg. and Technology offers the Ph.D. in Agril. Engineering by course work and research in the disciplines viz., Agril Process Engineering, Farm Machinery and Power Engineering, Irrigation & Drainage Engineering and Soil Water Conservation Engineering.

In addition to the academic programmes, the faculty has the following ongoing projects. All India Coordinated Research Project on Utilization of Groundwater through

Wells and Pumps; Precision Farming Development Centre, AICRP on Farm Implement and Machinery, Remote Sensing Laboratory, and the Tractor Training Laboratory. The programme is implemented at eight affiliated colleges of the University.

### College of Agricultural Engineering & Technology, Kashti, Malegaon

The College of Agricultural Engineering & Technology, Kashti, Malegaon was started from the academic year 2022-23 with an annual intake capacity of 40 students per year. It offers under- graduate B. Tech. (Agril. Engineering) degree programme.

### Post Graduate Institute



The Post Graduate Institute was established in 1972 to meet the higher educational needs of agriculture in the State. At present, the Post Graduate Institute offers Master's and Doctoral degree programme in 17 and 16 disciplines of Agriculture Faculty, respectively. The intake capacity of Master's and Doctoral programme is 169 and 66 respectively.

Sr. No.	Stream	Number of Colleges	Intake Capacity
1	Agriculture	27	2820
2	Horticulture	05	360
3	Agricultural Engineering	08	440
4	Food Technology	06	360
5	Biotechnology	06	450
6	Agril. Business Management	09	660
<b>Total</b>		<b>61</b>	<b>5090</b>

Further, PG programme is also started in one affiliated college at Baramati in 11 disciplines with intake capacity of 3 students per year in each discipline and M.B.A. (Agri.)

Each discipline of Post Graduate Institute is provided two classrooms with interactive smart classroom solution for teaching to Master and Doctoral degree programme students. In addition to classrooms, almost each discipline has well equipped Seminar hall to conduct presentation of student's seminar, group discussions etc. The Post Graduate Institute has an instructional farm spread over 56.21 ha. and is exclusively used for research activities of students. The students also have access for research on horticultural farm, medicinal and aromatic plants farm and irrigation water management farm. Each department has well equipped laboratories. In addition to these, the ultra modern facilities of following centers are available to student's research: Biotechnology Research Centre, All India Network Project on Pesticide Residue, Micronutrient Research Scheme, Post-Harvest Technology Laboratory, Bio-fertilizer Laboratory, Frozen Semen Laboratory, Biological Control Laboratory, Bakery Unit.

### Affiliated Colleges

Mahatma Phule Krishi Vidyapeeth, Rahuri realized the need and demand for more trained human resource in agriculture and accordingly provided affiliation to 61 colleges in the faculty of agriculture and allied science. These colleges offer various undergraduate degree programs in the faculty of agriculture.

degree programme with intake capacity of 30 students per year.



## Sport Activities

Inter Collegiate Sport Tournaments 2022-23 were arranged in the University as detailed below:

S. N.	Event	Venue	Date / Period	Name of College	Winner / Runner / Third
1	Chess (Men)	Shramshakti College of Agriculture, Food Technology, Agril. Engg. & Technology Maldad, Sangamner, Dist- Ahmednagar	July 16-17, 2022	College of Agriculture, Talsande	Winner
				College of Agriculture, Dondaicha	Runner
				KKW College of Agriculture, Nashik	Third
2	Chess (Women)			College of Agriculture, Pune and College of Agriculture, Dhule	Winner
				College of Agriculture, Loni	Runner
				College of Agriculture, Muktainagar	Third
3	Badminton (Men)	College of Agriculture Biotechnology, Baramati	July 30-31, 2022	College of Agriculture, Baramati	Winner
				College of Agriculture, Pune	Runner
				KKW College of Agriculture, Nashik	Third
4	Badminton (Women)			Post Graduate Institute, Rahuri	Winner
				College of Agriculture, Baramati	Runner
				College of Agriculture, Pune	Third
5	Table Tennis (Men)	College of Agriculture Biotechnology, Baramati	July 30-31, 2022	Dr. ASCAE& T, Rahuri	Winner
				College of Agriculture, Kolhapur	Runner
				College of Agriculture, Dhule	Third
6	Table Tennis (Women)			College of Agriculture, Pune	Winner
				College of Agriculture, Dhule	Runner
				College of Agriculture, Baramati	Third
7	Football (Men)	College of Agri. Business Management, Loni	August 05-08, 2022	College of Agriculture, Talsande	Winner
				College of Agriculture, Kadegaon	Runner
				College of Agriculture, Baramati	Third
8	Basketball (Men)	College of Agriculture, Sonai	August 22-23, 2022	Post Graduate Institute, Rahuri	Winner
				College of Agriculture, Sonai	Runner
				College of Agriculture, Akluj	Third
9	Basketball (Women)			College of Agriculture Engg. & Tech., Talsande	Winner
				College of Agriculture, Talsande	Runner
				College of Agriculture, Phaltan	Third



10	Volleyball (Men)	Dadasaheb Mokashi College of Agriculture, Rajmachi, Karad	October 01- 02, 2022	College of Agriculture, Baramati	Winner
				College of Agriculture, Sonai	Runner
				KKW College of Agriculture, Nashik	Third
11	Volleyball (Women)			College of Agriculture, Sonai	Winner
				College of Agriculture, Baramati	Runner
				College of Agriculture, Dhule	Third
12	Kho-kho (Men)	College of Agri. Business Management, Gunjalwadi, Sangamner	November 01-02, 2022	College of Agriculture, Baramati	Winner
				College of Agriculture, Paniv	Runner
				College of Agriculture, Talsande	Third
13	Kho-kho (Women)			College of Agriculture, Rajmachi, Karad	Winner
				College of Agriculture, Kadegaon	Runner
				College of Agriculture, Akluj	Third
14	Athletics (Men)	College of Agriculture Biotechnology, Loni	November 17-18, 2022	College of Agriculture, Pune	Winner
				College of Agriculture, Paniv & College of Agriculture, Talsande	Runner
				College of Agriculture Biotechnology, Loni	Third
15	Athletics (Women)			College of Agriculture, Pune	Winner
				College of Agriculture, Talsande	Runner
				College of Agriculture, Baramati	Third
16	Wrestling (Men)	College of Agriculture, Mirajgaon	December 23-24, 2022	College of Agriculture, Phaltan	Winner
				College of Agriculture, Rethare & College of Agriculture, Akluj	Runner
				College of Agriculture, Wadala & College of Agriculture, Mirajgaon	Third
17	Weight lifting & Best Physique (Men)			College of Agriculture, Baramati	Winner
				College of Agriculture, Rethare	Runner
				College of Agriculture, Akluj	Third
18	Hockey (Men)	College of Agri. Business Management, Narayangaon	December 31, 2022 to January 01, 2023	College of Agriculture, Phaltan	Winner
				College of Agriculture, Sonai	Runner
				College of Agri. Business Management, Narayangaon	Third
19	Hockey (Women)			KKW College of Agriculture, Nashik	Winner
				College of Agriculture, Pune	Runner
				College of Agriculture, Rajmachi, Karad	Third

20	Cricket (Men)	College of Agriculture, Loni	January 05- 09, 2023	College of Agriculture, Dhule	Winner
				College of Agriculture, Baramati	Runner
				KKW College of Agriculture, Nashik	Third
21	Kabaddi (Men)	Sahyadri College of Agricultural Engg. & Technology, Karad	January 13- 14, 2023	College of Agriculture, Phaltan	Winner
				College of Agriculture, Baramati	Runner
				College of Agriculture, Sonai	Third
22	Kabaddi (Women)			College of Agriculture, Akluj	Winner
				College of Agriculture, Kolhapur	Runner
				College of Agriculture, Karad	Third

**The University team participated in following various sport tournaments at national level.**

Tournament	Event	Organizing University	Date / Period
All India Inter University Tournaments	Elocution	University of Mumbai, Mumbai	October 04, 2022
	Chess (W)	IES University, Bhopal, Madhya Pradesh	November 14-16, 2022
	Chess (M)	Indira Gandhi National Tribal University, Amarkantak, Madhya Pradesh	November 15-19, 2022
	Football (M)	Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh	December 19-25, 2022
	Badminton (W)	Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra	December 20-23, 2022
	Table Tennis (M)	Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal, Madhya Pradesh	December 20-24, 2022
	Table Tennis (W)	University of Mumbai, Mumbai	December 21-24, 2022
	Badminton (M)	University of Kota, Kota, Rajasthan	December 25-29, 2022
	Hockey (M)	ITM University, Gwalior, Madhya Pradesh	January 20-25, 2023
	Wrestling (M)	Shivaji University, Kolhapur, Maharashtra	January 22-24, 2023
Cricket (M)	Pandit Dindayal Upadhyaya Shekhavati University, Sikar, Rajasthan	February 01-10, 2023	



	Best Physique (M)	Yenepoya (Deemed University) Deralakatte, Manglore, Karnataka	February 20-22, 2023
	Weight Lifting (M)	Chandigarh University, Mohali, Punjab	March 15-18, 2023
	Rowing (M & W)	Punjab University, Chandigarh, Punjab	March 01-07, 2023
	Kick Boxing (M)	Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh	March 14-17, 2023

M-Men; W-Women

The University students bagged following positions in All India Inter University Tournaments organized during 2022-23.

Event	Organizing University	Date / Period	Name of Student/ College	Position
Kick Boxing (M)	Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh	March 14-17, 2023	Mr. Rushikesh Bhagwat Bhakare, Ratnai College of Agriculture, Akluj, Solapur	Gold Medal
Rowing (M)	Punjab University, Chandigarh, Punjab	March 01-07, 2023	Mr. Rahul Jaywant Patil Dr. Ulhas Patil College of Agriculture, Jalgaon	5th Place
			Mr. Aniket Bhausheeb Kanmahale, KKW College of Horticulture, Nashik	8th Place and qualify for Khelo India
Rowing (W)			Ms. Srushti Subhash Jadhav, KKW College of Agriculture, Nashik	7th Place and qualify for Khelo India

M-Men; W-Women

National Management Competition 2020 was held at Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu during June, 2022. Students of Master of Business Administration from College of Agriculture, Pune participated in this event and secured following prizes.



Sr. No.	Event	Name of Student	Position
1	Business Plan	Mr. Shankikumar	Second
		Mr. Krushna Deshmukh	
2	Best Manager	Mr. Amit Patil	Third
3	Human Resource Mngement	Ms. Shreya Fadtare	Third
		Mr. Akash Kshirsagar	

- 18<sup>th</sup> State Level Inter University Youth Festival Inradhanushya-2022 was held at Central Campus, MPKV, Rahuri during November 5-9, 2022. Forty-

two students of the University were participated in this youth festival. The University bagged prizes in following events.

Sr. No.	Event	Position / Rank
1	Mime	Gold Medal
2	Folk/ Tribal Dance	Silver Medal
3	Cultural Rally/ Procession	Bronze Medal

- 24<sup>th</sup> Maharashtra State Inter University Sports meet “Kridamahotsav-2022” was held at Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhaji Nagar during December 03-07, 2022. The University Team participated in various events. Mr. Vrushal Ramesh Belhekar secured Gold Medal in Triple Jump event.

- 15<sup>th</sup> Maharashtra State Inter University Research Festival “Avishkar-2022” was held at Savitribai Phule Pune University, Pune during January 11-15, 2023. Twenty-one Students from the University were participated in this research festival and secured following prizes in various events.

S. N.	Name of Student/ College	Event	Position / Rank
1	Mr. Aniruddha Nandkumar Barve RCSM College of Agriculture, Kolhapur	Agriculture & Animal Husbandry PG level	Second Prize Rs.30000/-
2	Mr. Sarvadnya Amar Patil Dr. D.Y.P. College of Agriculture, Talsande	Commerce, Management and Law UG level	Third Prize Rs.25000/-

- The XXI All India Inter Agril-Universities Sports & Games Meet 2022-23 was held at Chaudhary Charan Singh Haryana Agricultural University, Hisar, Haryana during February 20-24, 2023. Forty students from the University were participated in this Sports & Games Meet and University Kabaddi (Men) Team secured Runner-up position.

- XXI Agricultural Inter University Youth Festival “AgriUnifest-2022” was held at University of Agricultural Sciences, Bengaluru, Karnataka during March 13-17, 2023. Twenty-two students from the University were participated in this youth festival and secured prizes in following events.

S. N.	Name of Student/ Team	Event	Position / Rank
1	MPKV Team	Mime (One Piece)	Silver Medal
2	Ms. Bavika Pratap Kene College of Agriculture, Baramati	Rangoli	Silver Medal



■ The University level Lower Agricultural Education Sports Competition was organized at Central Campus, MPKV, Rahuri during January 30-

31, 2023. Total 34 teams from the University jurisdiction participated in Kho-kho (Men & Women) and Volleyball event (Men & Women) and secured following prizes

Sr. No.	Event	District Team	Winner / Runner
1	Kho-kho (Men)	Dhule-Nandurbar	Winner
		Jalgaon	Runner
2	Kho-kho (Women)	Kolhapur	Winner
		Ahmednagar	Runner
3	Volleyball (Men)	Kolhapur	Winner
		Ahmednagar	Runner
4	Volleyball (Women)	Satara	Winner
		Jalgaon	Runner

## University Library



The University Library, MPKV, Rahuri started functioning at Central Campus in the year 1971. Since, its inception the library has developed tremendously under the Chairmanship of Library Advisory Committee and playing pivotal role in providing scientific and technological information to the students, teachers and scientists of both faculties i.e. Faculty of Agriculture and Faculty of Agricultural Engineering, as well as progressive farmers since last forty seven years. In this age of information technology, tremendous changes have taken place in library services.

Now a days University Library is rendering IT based services such as Internet, Retrieval of CD ROM Databases, e-mail, e-journals, online consortia (CeRA) etc along with conventional ones. The library has been equipped with digitization, e-resources, e-journals, Library Management Software etc.

### Library Collection

Sr. No.	Particulars	University Library	College of Agriculture Library			Total
			Pune	Kolhapur	Dhule	
1	Books	75010	50301	41069	42403	<b>208783</b>
2	Back Volumes of Journals	28014	5161	4904	2600	<b>40679</b>
3	Theses	10480	715	330	213	<b>11738</b>
4	Current Periodicals	198	25	41	29	<b>293</b>
5	E- Resources	907	148	392	125	<b>1572</b>
	<b>Total</b>	<b>1,14,609</b>	<b>56350</b>	<b>46736</b>	<b>45370</b>	<b>2,63,065</b>

### Library Budget

The University Library, Rahuri received the grants of Rs. 57.69 lakh for salary and Rs. 16.66 lakh for contingent expenditure and university fund. This library received total grants of Rs. 74.35 lakh during the year under report.

### Acquisition of Books and Journals

During the year under report the library received 11 books, 65 theses, 46 back volume, thus making total collection of 1,14,609 as on March 31, 2023. The library is also receiving 14 journals against exchange of Journal of Maharashtra Agricultural Universities and 40 journals on gratis.

### Library Services

- Open access
- Lending of Books for home reading
- Inter Library Loan facility
- Photocopying services
- Reading Hall facility

### Internet services

- CD ROM Databases
- CeRA (Consortium of e-Resources in Agriculture)
- E-journals, On-line E-journals
- Statistical Database
- Viewing Video Cassettes, DVDs through TV/VCR
- KrishiPrabha: Krishikosh, e-granth etc.
- OPAC (Online Public Access Catalog)



## Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management

The Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) is functional since 2018 at Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri. It is implemented through the National Agricultural Higher Education Project (NAHEP), a flagship project of the Indian Council of Agricultural Research (ICAR) New Delhi. Its thrust areas are climate smart agriculture and water management, Geoinformatics (RS/GIS), UAVs (Drone), Robotics, IoT, and precision agriculture. Since then, this CAAST project has addressed the issues outlined in four objectives as briefed below.

1. To develop the capacity amongst the faculties and scientists for the development and adoption of Precision Farming, Climate Smart Agriculture and Water Management Technologies.
2. To start one-year Post-Graduate Diploma in "Climate Smart Agriculture and Water Management" for developing human resources to create entrepreneurship and enhance employability in the public sectors and private industries, strengthen the current M.Sc., M. Tech. and Ph.D. programme (for their research projects, and make provision for the prospective beginner/middle-level faculties/researchers for Post Doctorate studies in precision water management, precision climate-smart agriculture and Geoinformatics
3. To develop an integrated system including RS/GIS and GPS tools, modelling and SDSS tools using unmanned aerial system (UAS aka. drone) and sensor-based technologies, mobile applications

and their applications climate-smart and precision agriculture and water management.

4. To conduct end-to-end capacity building through on-the-job training and case study-based learning; enhance the employment and placement rate; and business and entrepreneurship opportunities.

The project with a total budget of Rs. 19.90 crores was submitted under the leadership of Dr. K. P. Viswanatha, Former Vice-Chancellor, MPKV, Rahuri. Now the project is presently working under the guidance of Dr. P. G. Patil, Vice Chancellor, MPKV, Rahuri, Dr. S. R. Gadakh, Director of Research & Director of Extension, MPKV, Rahuri and being implemented under administrative and technical control of Dr. A. L. Pharande, Former Dean (F/A) & Director of Instructions and Dr. P. N. Rasal, Dean (F/A) & Director of Instructions MPKV, Rahuri by Dr. S. D. Gorantiwar, Principal Investigator and assisted by Dr. M. G. Shinde and Dr. J. S. Pachpute, Co-Principal Investigators, CAAST-CSAWM, MPKV, Rahuri along with 22 faculty members and 22 Research Associates from different disciplines

This project developed collaboration with different Universities from abroad namely, Washington State University, Pullman, WA, USA; Mississippi State University, Starkville, MS, USA; International Water Management Institute (IWMI); Colombo, Sri Lanka (CGAIR Organization); Asian Institute of Technology, Bangkok, Thailand and National Institute and Organizations of repute namely, Indian Institute of Technology, Pawai, Mumbai; Indian Institute of Remote Sensing, Dehradun; National Institute of Abiotic Stress Management, Malegaon (Kh), Baramati; Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad and National Bureau of Soil Science and Land Use Planning, Nagpur for research, education



and extension in climate smart agriculture and water management; Yorient Technologies Pvt. Ltd., Pune; E-Yantra (IIT Mumbai) and Mahindra and Mahindra Ltd., Mumbai. The thematic areas of the climate smart agriculture and water management are precision farm machineries for climate smart agriculture, application of robotics and drone in precision and climate smart

agriculture, precision water management, automated irrigation system for climate smart agriculture, remote sensing, GIS and GPS, Google Earth Engine and Artificial Intelligence applications in climate smart agriculture and water management, climate resilient agriculture and climate-smart villages.

### 1. One-month international training programme of the faculty members and short visits of the University Officers

Sr. No.	Title of Trainings	Duration	No. of Participants	Place
1.	Applications of Google Earth Engine, IoT, and Drones for Precision Agriculture	1Month	04	Asian Institute of Technology, Bangkok, Thailand
2.	Advanced Technologies for Climate Smart Agriculture	1Month	05	Asian Institute of Technology, Bangkok, Thailand
3.	Smart Sensing System in Horticultural Crop Production System	1Month	01	University of Tsukuba, Japan
4.	The Development of Computer Simulation Model for The Land Applications of Agricultural Machinery	1Month	01	University of Wisconsin, River Falls, USA
5.	Applications of Google Earth Engine, IoT, and Drones for Precision Agriculture	Fifteen days	02	Asian Institute of Technology, Bangkok, Thailand
6.	Short visit	One week	04	Asian Institute of Technology, Bangkok, Thailand
		<b>Total</b>	<b>17</b>	

### 2. Capacity building of students and faculties through online mode during 2022-23

Sr. No.	Activities	No.	Total no of participants		
			Students	Faculty	Farmers
1	National Trainings	12	943	512	-
2	National Workshops	10	677	124	-
3	National Webinars/Symposiums	12	1762	167	-
4	Online National Certificate Courses	14	448	559	54
5	Expert Lecture/Guest Lecture	17	537	678	-
6	Exposure Visits	21	1053	432	275
7	Demonstrations	15	279	351	189
	<b>Total</b>	<b>103</b>	<b>5699</b>	<b>2823</b>	<b>518</b>





## 2. Academic Programmes

- a) The PG Diploma framework and the 71 courses (related to CAAST-CSAWM thematic areas) to be offered in each module have been finalized during eight workshops and brainstorming sessions conducted at MPKV, Rahuri and Pune campuses with 28 National and International partners. This programme will be offered in the following five different specializations depending on the courses completed by the student.
- Climate Smart Agriculture - Geoinformatics (GI)
  - Climate Smart Agriculture – Natural Resources Management (NRM)
  - Climate Smart Agriculture – Robotics, Drones, IoT & Precision Farm Machineries (RDI)
- b) Started the Post Doctorate Research Programmes from 2021-22.
- c) Formulated the 7 courses related to Climate Smart Agriculture and Water Management to be offered to the M.Sc./M. Tech. and Ph. D. programmes as non-gradual or audit courses.
- d) The project aims at building the capacity and providing the training to the graduate or post-graduate individuals, faculties/scientists of the University and Research Organizations; and the practitioners from the development departments/ NGOs and other concerned organizations in climate smart agriculture and water management



**Unmanned Arial Vehicle (UAV) Laboratory**

**Robotics laboratory**



**Hyperspectral Imaging Laboratory**



**IoT & Sensors Laboratory**

to enable them to adopt these technologies for the productive and sustainable agriculture and provide the business and entrepreneurship opportunities. In this context, CASST-CSAWM has formulated the certificate courses of three weeks durations for the PG Diploma. The revenue generated from the registration fees of these certificate courses during 2021-22 was Rs. 22.80 lakh.

- e) Developed Drone/Robotics laboratories and up gradated RS & GIS and CAD-CAM laboratories.

### 3. Out of box research initiatives

#### A. Remote Pilot Training Organization (RPTO):

CAAST-CASWM, MPKV, Rahuri has developed laboratory for the application of drones in agriculture. As part of promoting the use of drones in agriculture and development of entrepreneurship opportunities to young generation, the organization of training, certificate course and demonstration on drone technology is essential. MPKV, Rahuri is India's first Agricultural University to establish Directorate General of Civil Aviation (DGCA) approved Remote Pilot Training Organization (RPTO) for the duration of September 19, 2022 to September 18, 2032.

- First Agricultural University to established Remote Pilot Training Organization under UAS 2021 in India.
- DGCA approved 05 days drone training programme

Theory lectures - 2 days  
 Simulator and Lab sessions - 1 day  
 Practical flying sessions - 2 days  
 Exclusive 2 days agricultural drone flying training



#### Eligibility

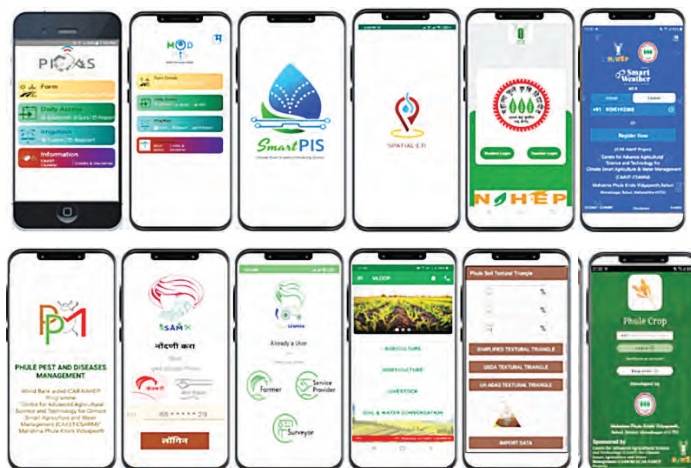
- 10<sup>th</sup> /SSC pass
- 18-65 years of age
- Valid Indian Passport
- Medical certificate

#### Facilities

- Highly skilled and experienced Instructors
- State of art drone laboratory with assembly and dismantling kit
- Latest flight simulator, Smart class rooms and lecture hall
- DGCA approved small category drones
- On-campus Lodging and boarding facility

#### Development of Mobile applications

- 1 Automatic Phule Irrigation Scheduler (AutoPIS)
- 2 Phule Smart Weather
- 3 Smart Phule Irrigation Scheduler (SmartPIS)
- 4 Phule Soil Moisture based Irrigation Scheduling System (PSMISS)
- 5 Location-specific real-time irrigation water requirement (Spatial IWR)
- 6 Phule Smart Fertilizer Calculator
- 7 Phule IoT enabled Siphon System for irrigation from Farm Pond



- 8 Framework for crop information system 38 Crop app for 22 major crops

#### B. Web applications

- 1 Real time estimation of Location-specific evapotranspiration (Spatial ETr)
- 2 Location-specific real-time irrigation water requirement (Spatial IWR)
- 3 Phule Smart Fertilizer Calculator
- 4 Training Evaluation System

#### C. Drone, Robotics and Precision Machinery Technologies

1. Real-time variable rate fertilizer applicator
2. Optimization of operating parameters of spraying with drone (UAV) for sugarcane
3. Monitoring growth and yield estimation of Soybean using UAV based hyperspectral imaging sensors





**D. Development of IoT enabled and Sensor based Technologies**

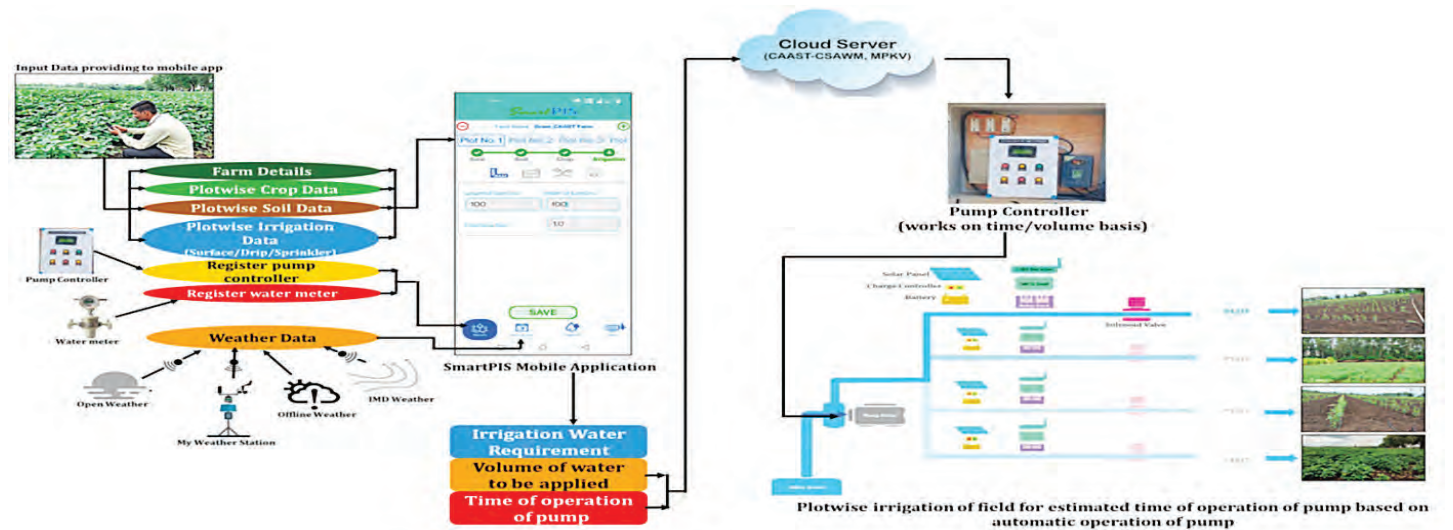
1. IoT enabled Automatic pump controller for a single crop
2. IoT enabled location specific-real time irrigation scheduling system for single crop (AutoPIS)
3. IoT enabled water meter 4.IoT enabled water meter-based location specific-real time irrigation scheduling system for single crop
5. IoT enabled Automatic pump controller for multiple crops
6. IoT enabled solenoid valves
7. IoT enabled water meter and solenoid valve-based location specific-real time irrigation scheduling system for multiple crops

**IoT enabled water meter and solenoid valve based location specific-real time irrigation scheduling system for multiple crops**

Received copyright registrations (RoC) for 11 different mobile and web applications developed under CAAST-CSAWM and some of the above-developed technologies (web-based and mobile-based applications) have been submitted for copyright. Also, the process of submitting other technologies for patents and copyrights is in process.

**Climate Smart Blocks**

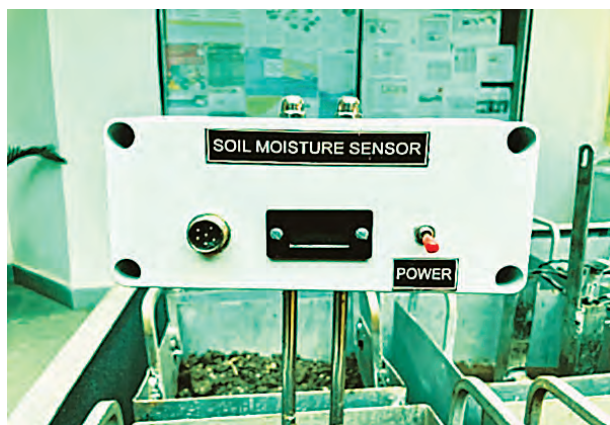
The climate smart block has been developed on 10 ha area to demonstrate the climate smart technologies to the students and faculties and provide the facilities to the PG students to undertake the research experiments in climate smart agriculture and water management.



**Certificates of copyright registrations (RoC) for different mobile and web applications developed under CAAST-CSAWM**

The climate smart block has been developed on 10 ha area to demonstrate the climate smart technologies to the students and faculties and provide the facilities to

the PG students to undertake the research experiments in climate smart agriculture and water management.



#### 4. Knowledge Destination

- Developed Climate Smart Agriculture Blocks for research, experimentation and demonstration related to climate smart agriculture and water management.
- Implementing Climate Smart Village approach in eleven selected villages and intern investigating the possibility scaling-up of climate smart agriculture and water management technologies.
- Crop Contingent Plan: The centre has developed a procedure for downscaling the District Level Crop Contingent Plan to the village level and preparing crop contingent plans for the seven villages.

#### 5. Important Visits

- Padam Vibhushan Dr. Anil Kakodkar, Chairman,

Rajiv Gandhi Science and Technology Commission, Government of Maharashtra, Former Chairman, Atomic Energy Commission, Government of India visited the CAAST-CSAWM Project, MPKV Rahuri on January 05, 2022 in presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri; Dr. S. G. Gorantiwar, DoR, MPKV, Rahuri and PI, Co-PI, CAAST team members and all research associates MPKV, Rahuri

- Deputy Director General (Edn) and National Director, NAHEP, ICAR, New Delhi, Dr. R. C. Agrawal visited to CAAST-CSAWM Project and inaugurated Hyperspectral Laboratory which is developed under CAAST Project on November 20, 2022 in presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri, Dr. S. D. Gorantiwar,



- DoR, MPKV, Rahuri and PI, Co-PI ,CAAST team members and all research associates.
- National Coordinator, CAAST, NAHEP, ICAR, New Delhi, Dr.Anuradha Agrawal, visited to CAAST-CSAWM Project, MPKV, Rahuri and inaugurated IoT Park on November 22, 2022 in presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri, Dr. S. D. Gorantiwar, DoR, MPKV, Rahuri and PI, Co-PI ,CAAST team members and all research associates.
- Shri. Manoj Ahuja, IAS, Hon'ble Secretary (DAFW), GoI, New Delhi and Shri. Abhilaksh Likhi, IAS, Hon'ble Additional Secretary (DAFW), GoI, New Delhi visited the CAAST-CSAWM Project, MPKV Rahuri on December 27, 2022 in presence of Dr. P. G. Patil, Hon'ble Vice Chancellor, MPKV, Rahuri, Dr. S. D. Gorantiwar, DoR MPKV, Rahuri and PI, Co-PI ,CAAST team members and all research associates.

## Innovation and Best Practices

- Initiated ICAR Best Teacher Award
- Identified 29 Adjunct Faculty in the discipline of agriculture and allied science.
- Established ten economically viable Experiential Learning Modules to enhance the confidence and competence of students for starting up-their own enterprises. The University Resolution for Profit Sharing of Experiential Learning Module is issued for execution.
- Developed National/International linkages with academic institutes provide Fellowships and Scholarships to students for education, research and opportunity to study abroad.
- Placement Cell is established at each constituent college.
- Competitive Exam Forum has been activated at each constituent college to encourage the students' participation in ARS/JRF/SRF/NET/GATE examinations.
- UG/PG Merit award is provided to students in respective faculty.
- Students are motivated for participation in Avhan, Ashwamedh, Indradhanushya and Avishkar for development of the students in disaster management, sports, cultural activities and inculcation of research aptitude respectively



## Educational Institutes

Sr. No	Name of Institute	Name of the Course/ Degree	Intake capacity
<b>A) Constituent Colleges</b>			
1.	Post Graduate Institute, Rahuri	Ph.D. (Agriculture)	66
		M.Sc. (Agri.)	149
		M.Sc. (Hort.)	12
		M.Sc. (Bio-tech.)	08
2.	College of Agriculture, Pune	Ph.D. (Agril. Met.)	02
		M.Sc. (Agri.)	60
		M.Sc. (Hort.)	06
		M.B.A. (Agri.)	30
		B.Sc. (Hons) Agriculture	190
3.	Rajarshi Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur	M.Sc. (Agri.)	48
		M.Sc. (Hort.)	06
		B.Sc. (Hons) Agriculture	190
4.	College of Agriculture, Dhule	M.Sc. (Agri.)	24
		M.Sc. (Hort.)	04
		B.Sc. (Hons) Agriculture	128
5.	College of Agriculture, Karad	B.Sc. (Hons) Agriculture	60
6.	College of Agriculture, Nandurbar	B.Sc. (Hons) Agriculture	60
7.	College of Agriculture, Muktainagar	B.Sc. (Hons) Agriculture	60
8.	Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon	B.Sc. (Hons) Agriculture	60
9.	College of Agriculture, Kashti, Malegaon	B.Sc. (Hons) Agriculture	60
10.	College of Agril. Business Management, Kashti, Malegaon	B.Sc. (Hons) Agri. Business Management	60
11.	College of Food Technology, Kashti, Malegaon	B.Tech. (Food Technology)	40
12.	College of Horticulture, Pune	B.Sc. (Hons) Horticulture	32
13.	College of Horticulture, Kashti, Malegaon	B.Sc. (Hons) Horticulture	60
14.	College of Agril. Engg. and Technology, Kashti, Malegaon	B.Tech. (Agril. Engg.)	40
15.	Dr. Annasaheb Shinde College of Agril. Engg. and Technology, Rahuri	Ph.D. (Agril. Engg.)	12
		M. Tech. (Agril. Engg.)	16
		B.Tech. (Agril. Engg.)	64
<b>B) Affiliated Colleges</b>			
1.	College of Agriculture, Akluj	B.Sc. (Hons) Agriculture	120
2.	College of Agriculture, Baramati	B.Sc. (Hons) Agriculture	180
		M.Sc. (Agri.)	27
		M.Sc. (Hort.)	06
		M.B.A. (Agri.)	30



3.	College of Agriculture, Sonsal Hingangaon, Kadegaon	B.Sc. (Hons) Agriculture	120
4.	Maratha Vidya Prasarak, College of Agriculture, Nasik	B.Sc. (Hons) Agriculture	120
5.	College of Agriculture, Rethare, Karad	B.Sc. (Hons) Agriculture	120
6.	College of Agriculture, Sonai	B.Sc. (Hons) Agriculture	180
7.	K.K.Wagh College of Agriculture, Nasik	B.Sc. (Hons) Agriculture	120
8.	College of Agriculture, Rajmachi, Karad	B.Sc. (Hons) Agriculture	120
9.	Dr.Ulhas Patil College of Agriculture, Jalgaon	B.Sc. (Hons) Agriculture	120
10.	College of Agriculture, Ambi, Talegaon Dabhade	B.Sc. (Hons) Agriculture	120
11.	College of Agriculture, Shahada, Nandurbar	B.Sc. (Hons) Agriculture	120
12.	College of Agriculture, Wadala	B.Sc. (Hons) Agriculture	120
13.	College of Agriculture, Talsande	B.Sc. (Hons) Agriculture	120
14.	College of Agriculture, Phaltan	B.Sc. (Hons) Agriculture	120
15.	College of Agriculture, Amalner	B.Sc. (Hons) Agriculture	60
16.	College of Agriculture, Maldad, Sangamner	B.Sc. (Hons) Agriculture	120
17.	Sadguru College of Agriculture, Mirajgaon	B.Sc. (Hons) Agriculture	120
18.	College of Agriculture, Dondaicha, Dhule	B.Sc. (Hons) Agriculture	180
19.	College of Agriculture, Babhulgaon, Nashik	B.Sc. (Hons) Agriculture	60
20.	College of Agriculture, Pravaranagar, Loni	B.Sc. (Hons) Agriculture	60
21.	College of Agriculture, Ghargaon, Ahmednagar	B.Sc. (Hons) Agriculture	60
22.	Sharad College of Agriculture, Jainapur	B.Sc. (Hons) Agriculture	60
23.	College of Agriculture, Paniv, Solapur	B.Sc. (Hons) Agriculture	60
24.	College of Agriculture, Vilad Ghat, Ahmednagar.	B.Sc. (Hons) Agriculture	60
25.	College of Agriculture, Nesari, Kolhapur	B.Sc. (Hons) Agriculture	60
26.	College of Agriculture, Malegaon, Nashik	B.Sc. (Hons) Agriculture	60
27.	College of Agriculture, Bhanashiwra, Newasa, Ahmednagar	B.Sc. (Hons) Agriculture	60
28.	College of Horticulture, Phaltan	B.Sc. (Hons) Horticulture	120
29.	College of Horticulture, Sonsal-Hingangaon, Kadegaon	B.Sc. (Hons) Horticulture	60
30.	K.K.Wagh College of Horticulture, Saraswatinagar, Nashik	B.Sc. (Hons) Horticulture	60
31.	College of Horticulture, Malegaon	B.Sc. (Hons) Horticulture	60
32.	College of Horticulture, Paniv, Solapur	B.Sc. (Hons) Horticulture	60
33.	College of Agril. Engineering and Technology, Jalgaon	B.Tech (Agril. Engg.)	80

34.	College of Agril. Engineering and Technology, Talsande, Hatkangale	B.Tech (Agril. Engg.)	80
35.	K. K. Wagh College of Agril. Engineering and Technology, Nasik	B.Tech (Agril. Engg.)	80
36.	College of Agril. Engineering and Technology, Yashwantnagar, Karad, Satara	B.Tech (Agril. Engg.)	40
37.	College of Agril. Engineering and Technology, Mirajgaon, Ahmednagar	B.Tech (Agril. Engg.)	40
38.	College of Agril. Engineering and Technology, Paniv, Solapur	B.Tech (Agril. Engg.)	40
39.	College of Agril. Engineering and Technology, Maldad, Sangamner	B.Tech (Agril. Engg.)	40
40.	College of Agril. Engineering and Technology, Rajmachi, Karad	B.Tech (Agril. Engg.)	40
41.	Mokashi College of Food Technology, Rajmachi, Karad	B.Tech. (Food Tech.)	80
42.	K.K.Wagh College of Food Technology, Nashik	B.Tech. (Food Tech.)	80
43.	College of Food Technology, Maldad, Sangamner	B.Tech. (Food Tech.)	80
44.	College of Food Technology, Jalgaon	B.Tech. (Food Tech.)	40
45.	College of Food Technology, Diwanmala, Dhule	B.Tech. (Food Tech.)	40
46.	College of Food Technology, Mohol, Solapur	B.Tech. (Food Tech.)	40
47.	College of Agril. Biotechnology, Loni, Rahata	B.Tech. ( Biotechnology)	100
48.	K.K. Wagh College of Agril. Biotechnology, Nasik	B.Tech. ( Biotechnology)	100
49.	College of Agril. Biotechnology, Wadala, Solapur	B.Tech. ( Biotechnology)	50
50.	Modern College of Agril. Biotechnology, Paud, Mulshi, Pune	B.Tech. ( Biotechnology)	50.
51.	College of Agril. Biotechnology, Madadgaon, Ahmednagar	B.Tech. ( Biotechnology)	100
52.	College of Agril. Biotechnology, Baramati	B.Tech. ( Biotechnology)	50
53.	College of Agri. Business Management, Akurdi, Pune	B.Sc. (Hons) Agri. Business Management	120
54.	College of Agri. Business Management, Narayangaon, Junnar	B.Sc. (Hons) Agri. Business Management	120
55.	College of Agri. Business Management, Sangli	B.Sc. (Hons) Agri. Business Management	60



56.	College of Agri. Business Management, Gunjalwadi, Sangamner	B.Sc. (Hons) Agri. Business Management	60
57.	College of Agri. Business Management, Loni, Rahata	B.Sc. (Hons) Agri. Business Management	60
58.	College of Agri. Business Management, Nashik	B.Sc. (Hons) Agri. Business Management	60
59.	College of Agri. Business Management, Wadala, Solapur	B.Sc. (Hons) Agri. Business Management	60
60.	College of Agri. Business Management, Baramati	B.Sc. (Hons) Agri. Business Management	60
61.	College of Agri. Business Management, Paniv, Solapur	B.Sc. (Hons) Agri. Business Management	60
<b>C) Agril. Tech. Schools &amp; Mali Training, Centers</b>		<b>Course</b>	<b>Intake</b>
1.	Krishi Tantra Vidyalaya, Manjari farm (Pune), Kolhapur, Dhule, Borgaon(Satara), Solapur, Digras (Sangali), Puntamba (Ahmednagar), Jalgaon, Malegaon (Nashik)	Agril. Diploma	60 (Each)
2.	Affiliated Agril. Tech. Schools (Total - 54)	Agril. Diploma	60 (Each)
3.	Constituent Agril. Polytechnic (1)	Agril Polytechnics Diploma	40
4.	Affiliated Agril. Polytechnic (Total - 14)	Agril Polytechnics Diploma	40
5.	Constituent Mali Training Center, GaneshKhind, Pune and MPKV, Rahuri	Certificate Course	40 (Each)
6.	Affiliated Mali Training Center (Total - 03)	Certificate Course	40 (Each)

<b>Pass out Students of Graduate, Post Graduate, Agril. Diploma &amp; Agril. Polytechnic of MPKV, Rahuri (Academic year 2022-23)</b>		
<b>Sr.No.</b>	<b>Programme</b>	<b>Pass out Students</b>
<b>Graduation</b>		
1.	B.Sc. (Agri.)	4456
2.	B.Sc. (Hort.)	260
3.	B.Tech. (Agri. Engg.)	570
4.	B.Tech. (Food Technology)	360
5.	B.Sc. (Agri. Bio.Tech.)	369
6.	B.Sc. (Hons.) (Agri. Business Management)	335
7.	BBA (Agri.)	19
8.	B. Sc (Animal Hus.)	19
	<b>Total</b>	<b>6388</b>
<b>Ph.D. and Post Graduation</b>		
9.	M.Sc. (Agri.)	296
10.	M.Sc. (Hort.)	25
11.	M.Tech. (Agri. Engg.)	11
12.	Ph.D. (Agri.)	62
13.	M.B.A.	44
14.	M.Sc. (Bio.Tech.)	6
15.	<b>Total</b>	<b>444</b>
<b>Agri. Diploma &amp; Agril. Polytechnic</b>		
16.	Agri. Diploma	2907
17.	Agri. Polytechnic (Semi English)	---
18.	Agri. Polytechnic (English)	32
	<b>Total</b>	<b>2939</b>



### 3. Research



The jurisdiction of Mahatma Phule Krishi Vidyapeeth, Rahuri extends over the Western Maharashtra comprising of 10 districts divided into four agro climatic zones viz., Western Ghat Zone, Sub-montane zone, Plain zone and Scarcity zone extended from Solapur to Nandurbar. In addition, Jalgaon district with assured rainfall falls in Central Plateau zone in jurisdiction of the University.

For conducting the research on soil, climate, cropping system, livestock and other aspects of farming business, the university has a well established network of research stations spread over different agro climatic zones. In all, 27 research stations are located in 5 agro climatic zones. The State level Crop Specialists are placed at Jalgaon (Oilseeds), Padegaon (Sugarcane), Niphad (Wheat) and Solapur (Soils). In addition to this, 4 Zonal Agricultural Research Stations are located at Igatpuri, Pune, Kolhapur and Solapur. There are 18 sub-research stations, where mainly verification of research work is being done to test the technologies developed by the University as well as to conduct the research programmes based on feedbacks received from the farmers.

At present, there are 82 non-plan schemes funded by State Govt., 45 AICRPs on different crops /plant sciences and one centrally sponsored research scheme and 38 ad-hoc research projects, functioning in the jurisdiction of MPKV.

Taking into consideration the availability of land, weather conditions and resources, the university has concentrated its efforts to develop suitable technologies for dryland agriculture, irrigated farming as well as for hi-tech

agriculture. During the last 55 years, the University has released quite good number of high yielding varieties (more than 294) of cereals, pulses, oilseeds, vegetables, sugarcane, fruits, flowers and other cash crops, 46 farm machineries and implements and 1774 agricultural research technologies for the farming community from State as well as country. The appropriate agro techniques for enhancing agricultural production and productivity of different crops have also been passed on to the farmers. The contribution of University in water management is quite significant. The research on micro propagation, farm machinery, dryland horticulture, integrated pest and nutrient management including biofertilizers, mushroom production etc. is worth mentioning. The University has focused its attention on location specific and need based research activities in order to cater the needs of all types of farmers and farming groups. Biotechnology with its vast potential and challenges is important to agricultural development. This University is developing biotechnological competence in the areas of plant tissue culture, molecular biology, biocontrol, and biofertilizers. The University has also prepared next 10 years research roadmap regarding development of improved crop varieties and farm implements and machinery. Furthermore, the University prioritizing its research on biotic and abiotic stress management, precision farming, processing and mechanical harvesting, bio-pesticides and fertilizers, nutritional and quality parameters. We have initiated the activities as per the policies of the state and central governments in mission mode. These includes natural resource management for soil health and water use efficiency, development of robotic technology in the field of agriculture, use of nano technology, irrigation water management based on automatic weather station at its IT applications.

The University did the impact analysis of 25 varieties of 9 crops released by the University and it has contributed gross income of Rs. 2,46,331 Cr. and net income of Rs. 32,673 Cr. in the state economy.

Recently, Government of Maharashtra has granted



13 research projects to the University having total outlay of Rs. 28 Cr. It mainly involves research on soybean, cotton, chickpea, wheat, rabi sorghum, oil seeds, precision agriculture, digital agriculture, improvement of salt affected soils, pesticide residue analysis etc.

University has registered 21 copyrights and registered 02 crop varieties at Protection of Plant Varieties and Farmers Rights Authority.

All India Network Project on Jute and Allied Fibres

organized 34 Annual Workshop at Mahatma Phule Krishi Vidyapeeth, Rahuri during 23-24 February, 2023. AINP on Jute and Allied Fibres, MPKV, Rahuri received 'Excellent Centre Award' in the workshop.

During the report period the University will release 4 crop varieties of cereals, 3 agricultural machineries and 69 research recommendations at state level for the benefit of farming community.

### Zonal, State Level, Lead and Verification Research Stations of the University

Sr. No.	Research Station	Lead Function (s)	Verification Function (s)
<b>A. Western Ghat Zone</b>			
1.	Zonal Agril. Research Station Igatpuri, Dist. Nasik	Maize, Small Millets, Pandharpuri Buffalo, Hortipastural Systems, Sugarcane	Grasses, Rainfed fruits & Vegetables, Soybean, Groundnut, Organic Farming in Vegetables
2.	Agril. Research Station, Lonavala, Dist. Pune	Rice (Screening for blast)	--
3.	Regional Wheat Rust Research Station, Mahabaleshwar, Dist. Satara	Wheat (Screening against rust)	Vegetables (cruciferous), Berries
4.	Agril. Research Station, Radhanagari	Paddy	Beans, Wheat, Wal
<b>B. Sub-Montane Zone</b>			
1.	Zonal Agril. Research Station, Kolhapur	Sugarcane, Jaggery Maize, Small Millets, Pandharpuri Buffalo, Hortipastural Systems, Sugarcane,	Sugarcane based Cropping System Grasses, Rainfed fruits & Vegetables, Soybean, Groundnut, Organic Farming in Vegetables
2.	Regional Sugarcane and Jaggery Research Station, Kolhapur	Sugarcane, Jaggery	Sugarcane based Cropping System
3.	Agril. Research Station, Gadhinglaj	Organic farming, Basmati Rice	Sorghum (K), Pulses, Chilli, and Oilseeds
4.	Agril. Research Station, Karad	INM for Cropping Systems	Pulses, Maize, Kharif Jowar, Soybean, Sunflower, Groundnut,
5.	Agril. Research Station, Vadgaon Maval	Rice	Rice based Cropping System.
<b>C. Plain Zone</b>			
1.	Zonal Agril. Research Station, Ganeshkhind, Pune	Wheat, Wheat based Cropping Systems Fruits, Vegetables, Flowers, Rajmah Bean, Spices, Plantation Crops, Potato	Pearl millet, Pulses and Oilseeds Pulses, Oilseeds and Wheat

2.	Agril. Research Station, K. Digraj, Dist. Sangli	Turmeric, Soybean, Groundnut Betelvine, Problematic Soils	Kharif Jowar, Pulses Sugarcane, Sugar beet,
3.	Agril. Research Station, Niphad	Wheat, Wheat based Cropping Systems	Pearl millet, Pulses and Oilseeds
4.	Onion and Grape Research Station, Pimpalgaon Baswant	Grapes, Onion and Garlic	Pomegranate and Vegetables
<b>D. Scarcity Zone</b>			
1.	Zonal Agril. Research Station, Solapur	Pulses, Oilseeds Soils, Dry farming, Safflower Agrometeorology, Sunflower	Arid Zone Fruit Crops Pearl millet, Pulses, Sorghum (R)
2.	Agril. Research Station, Mohol, Dist. Solapur	Sorghum (R)	Pulses and Oilseeds
3.	Agril. Research Station, Jeur, Dist. Solapur	Organic Farming System	Rabi Jowar, Pulses
4.	Pulses and Oilseed Crops Research and Training Centre, Pandharpur, Dist. Solapur	Pulses, Oilseeds	Arid Zone Fruit Crops
5.	Agril. Research Station, Chas, Dist. Ahmednagar	--	Dry farming, Pearl millet, Pulses (K), Sorghum (R)
6.	Central Sugarcane Research Station, Padegaon, Dist. Satara	Sugarcane, Sugarcane based Farming & Cropping System	Sugar beet
7.	Central Campus, Rahuri	Sorghum, Pulses, Irrigated Cotton, Forages, Grasses, Groundnut (S), Fruits, Vegetables, Cropping System, Water Management, Organic Farming, IPM, Biotechnology, PHT, Farm Machinery, STCR, Cattle, Goat, Sheep, Seed technology, Jute and Under utilised crops	--
8.	Agril. Research Station, Savlivihi, Tal. Kopergaon, Dist. Ahmednagar	Sunflower	Pearl millet, Pulses, Soybean, Cotton and Wheat
9.	Agril. Research Station, Shirampur	Citrus	--
10.	Agril. Research Station, Dhule	Dry farming, Pearl millet, Grasses	Sorghum (K), Pulses, Oilseeds, Rainfed Cotton, Arid Zone Fruit Crops
11.	All India Coordinated Fig and Custard apple Research Centre, Jadhavwadi (Pune)	Fig and Custard apple	Fig and custard apple
12.	Pomegranate Research and Technology Extension Centre, Lakhmapur, Dist. Nasik	Pomegranate	Pomegranate
<b>E. Central Plateau Zone</b>			
1.	Oil Seed Research Station, Jalgaon	Oilseeds, Banana and Betelvine, Rainfed Cotton	Pulses, Sorghum (Kharif), Soybean, Sunflower





Maharashtra has four geographic regions viz., Konkan, Western Maharashtra, Vidarbha and Marathwada, which have different ecological and cropping patterns. On the basis of weather and land conditions, Maharashtra is divided into nine zones viz., North Konkan, South Konkan, Montane Zone, Sub-montane zone, Plain Zone, Scarcity Zone, Central Plateau Zone, Western Vidarbha and Eastern Vidarbha. To cater the needs of these zones and improve the production and productivity of different crops, this University has planned various research and extension programmes. Emphasis is given on sustainable agriculture, including poultry, sheep and goat rearing, apiculture, fisheries, sericulture etc.

The areas have been identified for better adaptation of cropping patterns such as sugarcane in Kolhapur, Sangli, Pune and Ahmednagar, grapes in Nashik, Sangli, Pune and Solapur, fruits in Pune, Ahmednagar, Sangli and Solapur district to harvest maximum yield and profit.

### Seed production Programme

Sr. No.	Input	roduction
1	Seed Production	
	University farm	7,313 q
	Farmers participatory	23,880 q
	Pulses Seed Hub	2,577 q
	<b>Total</b>	<b>33,770 q</b>
2	Planting Material (No. of grafts)	11.05 Lakhs
3	Biopesticides	1322 MT & 400 Lit.
4	Biofertilizers	97.43 MT & 8253 Lit.
5	Micronutrient formulation	50,000 Lit.

## Significant Research Achievements

### A Released Varieties/Hybrids

#### I. Field Crops

##### 1. Rice - Phule Kolam (VDN-1832)



Rice genotype Phule Kolam (VDN-1832) having higher grain yield, midlate maturity and short slender grain type is recommended

for release in Western Maharashtra for kharif season.

#### Salient features

- Higher grain yield: 48.78 q ha<sup>-1</sup> (18.5% Increase over Kundalika and 22.1% Phule Radha).
- Midlate maturity -125 to 130 days.
- Short slender grain type.
- Resistant to brown spot and stem borer.
- Moderately resistant to the diseases leaf blast, sheath rot, neck blast, grain (glume) discoloration
- Higher milling (68.16 %) and Head Rice Recovery (63.97 %).
- Excellent cooking quality [intermediate amylose content (23.7 %) and high gel consistency (75 mm)].
- Release for Western Maharashtra in kharif season.

##### 2. Rice - Phule Super Pawana (IGP-13-12-19)

Rice genotype Phule Super Pawana (IGP-13-12-19) having higher grain yield, dwarf, midlate in maturity, scented,



long slender grains with excellent qualities is recommended for release in Western Maharashtra for kharif season.

#### Salient features

- Higher grain yield- 54.63 q/ha (28.0 % increase over check Pawana).
- Midlate maturity -130 to 135 days.

- It is awnless, mid late duration and long slender scented grain type.
- Resistant to stem borer & Moderately resistant to Brown plant hoppers
- High milling percentage (69.22 %) and head rice recovery (59.49 %).
- High in Iron (17.7 ppm) and Zinc (20.0 ppm) content.
- Excellent cooking quality - Amylose content (20.90 %).
- Release for Western Maharashtra in kharif season.

### 3. Maize hybrid Phule Umed (QMH 1701)

Maize hybrid Phule Umed (QMH 1701) having higher grain yield and medium duration maturity is recommended for release in Maharashtra state for kharif season.



#### Salient features

- Higher grain yield- 87.56 q/ha [(25.27 % higher than check Rajarshi (69.90 q/ha), 17.29 % higher than Phule Maharshi (74.65 q/ha)].
- Medium duration maturity (95-100 days).
- Higher protein content (9.73 %)
- Resistant to Turcicum leaf blight (TLB), Maydis leaf blight (MLB), Curvularia leaf spot (CLS) and Rust.
- Resistant to stem borer and moderately resistant to FAW
- Suitable for Kharif season in Maharashtra.

### 4. Maize Hybrid Phule Champion (QMH-1819)



Maize hybrid Phule Champion (QMH 1819) having higher grain yield and early maturity is recommended for release in

Maharashtra state for kharif season.

#### Salient features

- Higher grain yield- 91.82 q/ha [25.69 % higher than check Rajarshi (73.06 q/ha), 18.73 % higher than Phule Maharshi (77.34 q/ha)].
- Early maturity (90 - 95 days).
- Higher protein content (9.84 %).
- Resistant to Turcicum leaf blight (TLB), Maydis Leaf blight (MLB), Curvularia leaf spot (CLS) and Rust.
- Resistant to stem borer and moderately resistant to FAW
- Suitable for Kharif season in Maharashtra.

## B. Farm Machineries

### 1. Phule Juice Extractor

‘Phule Juice Extractor’ is recommended to release for small scale processors to extract juice from fruits and vegetables.



#### Salient features

- Cost of juice production- Rs. 2.14 per kg
- The input capacity of machine - 29 kg/h for fruits and 18 kg/h for vegetables
- Juice extraction efficiency : 90 to 91% for fruits and 73 to 76 % for vegetables
- Operated on single phase electricity supply
- Minimum sedimentation (1.30 to 1.35 %)

### 2. Phule sugarcane leaf detrasher cum shredder



Tractor operated “Phule sugarcane leaf detrasher cum shredder” is recommended to release for sugarcane leaf removing and shredding.

#### Salient features

- The effective field capacity 0.31 ha h-1
- Field efficiency 82 %.

- The net saving of Rs. 9,290 per ha (i.e. 83.70 %) over conventional method.
- Useful for sugarcane leaf removing and shredding
- Suitable for 24 hp or higher capacity tractors

### 3. Phule groundnut decorticator cum sorter

Power operated “Phule groundnut decorticator cum sorter” is recommended to release for decorticating pods and separating of nuts, brokens, unshelled pods, and shells.



#### Salient features

- Decorticating efficiency of this machine – 64 kg h<sup>-1</sup> (93.85 %)
- Cleaning Efficiency 95.07 %
- Net saving in cost of operation Rs. 2.65 Rs per Kg (i.e.63.94%) over conventional method.
- Suitable for 1 hp or higher capacity single phase electric motor
- Useful for small and marginal farmers

## C. Recommendations

### I Natural Resource Management

#### Agronomy

1. Application of 10 t FYM ha<sup>-1</sup> at the time of preparatory tillage and 170 kg Urea -DAP briquettes (60 : 30 N : P<sub>2</sub>O<sub>5</sub> kg ha<sup>-1</sup>) + 50 kg K<sub>2</sub>O ha<sup>-1</sup> at the time of transplanting followed by 1% ( 10 g L<sup>-1</sup> of water) foliar sprays of water soluble fertilizer 19:19:19 at 20 days and 0:52:34 or 19:19:19 at 40 days after transplanting is recommended for transplanted paddy cultivation of Sub-montane zone of Maharashtra for obtaining higher grain yield, monetary returns and to maintain nutrient status of soil.
2. Phule supercane nursery technology with use

of 50 % soil and 50 % farm yard manure or vermicompost or sugarcane bagasse as a growing media in equal proportion (1:1) to achieve higher germination of single eye bud sugarcane setts for planting of sugarcane settlings on farmers own field is recommended.

### Phule Supercane Nursery Technology

Preparation of sugarcane one eye bud setts



Setts treatment (For 1 litre water 1 g Carbendazim + 3 ml Malathion then for 1 litre water 100 g Acetobactor + 12.5 g Phosphorus solubilising bacteria)



Prepare raised bed in farmer’s field



Spread empty fertilizer bags/ plastic paper on raised bed



Apply growing media in equal proportion on fertilizer bags/ plastic paper



Keep one eye bud setts on fertilizer bags/ plastic paper



Full Irrigation to raised beds



Cover bed with sugarcane trash and black polythene paper for 7 days



Removal sugarcane trash and black polythene paper after 7 days



Daily irrigation after 7 days by watering can/micro sprinkler



Sugarcane settlings ready for planting after 25 days

3. Planting of suru Sugarcane with drip method for irrigation and inverted modular micro-sprinkler to create microclimate and trash management in ratoons with shredder machine is recommended for Maharashtra to obtain sustainable and maximum cane yield, economic returns, soil health and efficient water use.
4. Soil application of multi-micronutrient Grade-I 25 kg ha<sup>-1</sup> along with GRDF (100:50:50 N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O kg ha<sup>-1</sup> + FYM 5 t ha<sup>-1</sup>) at the time of sowing and foliar sprays of Phule liquid multi-micronutrient Grade-II 1% (10 ml/ lit of water) at 30 and 45 DAS is recommended to achieve good quality, higher forage yield and monetary returns of maize in medium deep black soils of Western Maharashtra.
5. Application of 25 % RDN (20 kg N ha<sup>-1</sup>) through unban compost and 75% RDN (60 kg N ha<sup>-1</sup>) + 100% P<sub>2</sub>O<sub>5</sub> (40 kg ha<sup>-1</sup>) and K<sub>2</sub>O (40 kg ha<sup>-1</sup>) + 5 kg MgSO<sub>4</sub> ha<sup>-1</sup> through chemical fertilizers is recommended for higher seed production and monetary returns of Tossa jute (*Corchorus olitorius*L.) in kharif season on medium deep soils of Maharashtra.
6. Application of 40 kg ha<sup>-1</sup> K<sub>2</sub>O along with 5 t FYM and recommended dose of 60 kg N (two equal splits at sowing and 30 DAS) and 80 kg ha<sup>-1</sup> P<sub>2</sub>O<sub>5</sub> to Rajmah crop at the time of sowing is recommended in medium black soils of Western Maharashtra.
7. Dibbling of paddy variety Basmati-370 at spacing 25 x 25 cm with 125 % RDF (125:62.5:62.5 kg/ha N: P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O) is recommended to obtain high yield and monetary returns in upland paddy for the Krishna River bank in Sub-montane zone of Western Maharashtra.
8. If two canal irrigations are available during rabi season, cultivation of Safflower or Sorghum or Gram is profitable instead of Wheat crop with first

canal irrigation at 20-25 days after sowing and second canal irrigation at 60-65 days after sowing is recommended for Plain Zone of Maharashtra in Vertisols.

9. Pigeonpea + Sunflower (1:2) or Pigeonpea + Pearl millet (1:2) and Pigeonpea + Soybean (1:3) or Pigeonpea + Groundnut (1:3) intercropping system in medium soils under scarcity zone of Western Maharashtra is recommended for higher yield and monetary returns.

#### Soil Science

10. Application of Nitrogen, Phosphorus and Potassium as per yield target equations for 15-20 q ha<sup>-1</sup> yield of Rajmah bean and maintaining the soil fertility is recommended for medium deep black soils of Western Maharashtra.

#### With FYM (5 t ha<sup>-1</sup>)

$$FN = 8.31 \times T - 0.47 \times SN - 1.48 \times FYM$$

$$FP_2O_5 = 6.10 \times T - 2.21 \times SP - 1.75 \times FYM$$

$$FK_2O = 3.96 \times T - 0.08 \times SK - 1.86 \times FYM$$

#### Without FYM

$$FN = 8.98 \times T - 0.51 \times SN$$

$$FP_2O_5 = 6.74 \times T - 2.44 \times SP$$

$$FK_2O = 4.39 \times T - 0.09 \times SK$$

Where FN, FP<sub>2</sub>O<sub>5</sub> and FK<sub>2</sub>O is fertilizer N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O in kg ha<sup>-1</sup>, T is yield target in q ha<sup>-1</sup> and SN, SP and SK are soil available N, P and K in kg ha<sup>-1</sup>, FYM in t ha<sup>-1</sup>.

11. Application of 1 kg Arbuscular Mycorrhizal Fungi (AMF) culture in paddy nursery (10 R) with soil application of 10 t FYM ha<sup>-1</sup> one month before transplanting followed by seedlings treated with PSB (*Bacillus megaterium*) or *Aspergillus awamori* solution (500 g per 20 lit. of water) for 30 minutes along with soil application of 50 kg P<sub>2</sub>O<sub>5</sub> through SSP, recommended dose of 100 kg N and 50 kg K<sub>2</sub>O





- ha<sup>-1</sup> at the time of transplanting to lowland paddy is recommended for higher yield and monetary returns in Western Ghat Zone of Maharashtra.
12. The application of nitrogen and potassium from recommended dose of soybean (50 kg N : 75 kg P<sub>2</sub>O<sub>5</sub> + 45 kg K<sub>2</sub>O + 10 t FYM ha<sup>-1</sup>) is recommended to apply in two splits as 50% at sowing and 50 % at 35 DAS for higher grain yield and monetary returns of soybean in light soils of Sub-montane Zone of Maharashtra.
13. Application of pressmud cake @ 5 t ha<sup>-1</sup> alternate year, one month before sowing of chickpea along with recommended dose of fertilizers (25:50:00 N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O kg ha<sup>-1</sup>) at the time of sowing grown on medium deep black soil in scarcity zone of Maharashtra is recommended for obtaining higher yield, monetary returns, to maintain nutrient status and retain moisture in soil.
14. The foliar application of plant growth regulators and water soluble fertilizer nutrients with recommended dose of fertilizer to preseasonal sugarcane (340:170:170 N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O kg ha<sup>-1</sup>) and its two successive ratoons (250:115:115 N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O kg ha<sup>-1</sup>) along with 25 t ha<sup>-1</sup> FYM and recommended trash management practice to ratoon is recommended for higher cane and CCS yield as per following schedule.

#### The spraying schedule for preseasonal sugarcane and its two successive ratoons (ha<sup>-1</sup>)

Sr. No.	Plant Growth Regulators/ Fertilizer Nutrients	Time of spray /Quantity of plant growth regulators and fertilizer nutrients (g) with water				
		1 <sup>st</sup> Spray	2 <sup>nd</sup> Spray	3 <sup>rd</sup> Spray	4 <sup>th</sup> Spray	5 <sup>th</sup> Spray
		45 DAP	65 DAP	85 DAP	105 DAP	125 DAP
		Water: 150 Liter	Water: 225 Liter	Water: 350 Liter	Water: 375 Liter	Water: 500 Liter
1	GA3: Gibberlic Acid (40 ppm)	6	9	14	15	20
2	6BA: 6 Benzyl Adenine (40 ppm)	6	9	14	15	20
3	19:19:19 (1%)	1500	2250	3500	3750	5000
4	Phule Liquid Micro Grade II (0.25%)	375	562	875	937	1250
5	Silicic Acid (0.5%)	750	1125	1750	1875	2500

**Note:** As per need (especially in very leached soil) mix silicic acid (0.5 %) in above spray schedule

15. Application of 20 g sulphur plant<sup>-1</sup> after incubating with FYM (1:10 proportion) for one week in two splits (i.e. at planting and at 165 days after planting) with recommended dose of fertilizer (150:60:150 g N: P<sub>2</sub>O<sub>5</sub>: K<sub>2</sub>O per plant) is recommended for higher yield and monetary returns of banana in medium deep black soil.
16. Foliar application of acetyl salicylic acid 0.1 mM (18 mg /litre) at floral primordial initiation and flowering stage is recommended to alleviate negative effects of soil moisture in banana crop.
17. Drenching of Phule liquid micronutrients grade II (Citric acid based) at field capacity @ 5.0 L ha<sup>-1</sup> in two equal splits or two foliar sprays @ 1



- % (10 ml/ litre water) at 35 and 50 DAS along with general recommended dose of nutrients (100:50:50 kg ha<sup>-1</sup> N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O + 20 t ha<sup>-1</sup> FYM) to okra is recommended for increase in availability and uptake of micronutrients, yield and monetary returns on medium deep black soils of western Maharashtra.
18. Application of FeSO<sub>4</sub> @ 20 kg ha<sup>-1</sup> incubated in FYM (1:10 proportion) for one week along with general recommended dose of fertilizer (120:60:40 N: P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O kg ha<sup>-1</sup> + 10 t FYMha<sup>-1</sup>) at the time of sowing followed by foliar sprays of Fe EDTA @ 0.2 % (2 g per liter water) at tillering stage (40-45 DAS) and flowering stage (60-65 DAS) to wheat crop is recommended for higher yield, iron concentration in grain and monetary returns in iron deficient soils of plain zone of Maharashtra.
  19. Application of 60% recommended dose of fertilizer (240:102:102 N:P<sub>2</sub>O<sub>5</sub>:K<sub>2</sub>O kg ha<sup>-1</sup>) + 25 t ha<sup>-1</sup> FYM along with water soluble solid micronutrient Grade I (Fe 2%, Zn 5%, Mn 1%, Cu 0.5%, B 0.1%) @ 25 kg ha<sup>-1</sup> in four equal splits at planting, 60, 120 and 180 days after planting through fertigation is recommended for obtaining higher yield and monetary returns of preseasonal sugarcane in medium deep black soils of Western Maharashtra.

### Horticulture

20. It is recommended to bag the mango fruits (Cv. *Kesar*) with skirting bags (fruit bag) at egg stage for quality fruit production and more monetary returns.
21. Grafting of brinjal varieties on *Solanum torvum* Swartz brinjal rootstock during first fortnight of August is recommended for maximum crop duration, graft success, brinjal fruit yield, monetary returns and less incidence of *fusarium* wilt.
22. In medium maturing potato cultivars dehaulming at 80-85 days after planting and harvesting 10 days thereafter is recommended for obtaining better quality tuber production and monetary returns.
23. Grafting of Phule Raja tomato hybrid on brinjal rootstock *Solanum torvum* is recommended for maximum crop duration, better growth, higher graft success, tomato fruit yield and more net monetary returns with less incidence of *fusarium* wilt.
24. Spray of gibberellic acid @ 25 ppm (25 ml/lit) in strawberry at 30 days after planting is recommended at Mahabaleshwar plateau for obtaining higher yield and monetary returns.
25. Transplanting of Dawana seedlings, in first fortnight of December on flat bed with spacing of 30 x 15 cm is recommended for higher yield of fresh herbage, oil and monetary returns in Western Maharashtra.
26. Transplanting of Dawana seedlings, in first fortnight of December on flat bed with spacing of 30 x 15 cm is recommended for higher yield of fresh herbage, oil and monetary returns in Western Maharashtra.

### Animal Science

27. Forage cactus can be utilized as forage for goat by chopping during forage scarcity period.
28. Value addition of cow dung by vermicomposting is recommended to increase the profitability in dairy farming.
29. Low cost hard moorum bed without any construction is recommended for better quality and quantity vermicompost production in a short period.
30. It is recommended to use betel vine leaves extract (10 g leaves + 100 ML water) @ 5 % and sugar @ 28 % of khoa for preparation of burfi having 6 days shelf life at 30°C.
31. For preparation of cheese spread it is recommended to use 6 % guava fruit pulp of Sardar variety in the blend of cheddar cheese and goat milk chakka in the proportion 40:60.



**Basic Sciences, Food Science and Biotechnology**

32. Use of 700 g Little millet flour and 300 g Maida or 900 g Little millet flour and 100 g Wheat flour, 500 g sugar, 500 g vegetable fat, 5 g ammonium bicarbonate and 5 g sodium bicarbonate is recommended to prepare good quality nutritious biscuits with high fiber content upto 3 months storage.
33. Use of Dragon fruit pulp 1000 g, sugar 1000 g, vegetable fat 25 g, skim milk powder 50 g, starch 60 g, salt 20 g and maltodextrin 20 g is recommended to prepare good quality and nutritious toffee upto 3 months storage.
34. It is recommended to prepare dry safflower leafy vegetable with good nutritional quality, organoleptic properties and good keeping quality up to 3 months by harvesting leaves at 30 days (DAS) with blanching at 60° C for 30 seconds in chemical solution of KMS (0.02%), MgO (1.5 g), Citric acid (1%), NaHCO<sub>3</sub> (1.5%) and NaCl (1.5%) and drying in tray dryer at 55 °C for 8 h.
35. Use of 5 g sorghum starch, 1 g vegetables powder (0.25g carrot, 0.20g tomato, 0.15g curry leaves, 0.15g coriander leaves, 0.25g green pea powder), 1 g spices powder (0.20g ginger, 0.20g garlic, 0.30g onion, 0.15g salt, 0.10g turmeric, 0.05g black pepper powder) and boiling in 100 mL water for 5 min is recommended for preparation of good quality nutritious sorghum starch soup.

**Plant Protection****Agri. Entomology**

36. Bagging of fruits with the polypropylene cloth bags (6x4") at 120 days after bahar is recommended for the prevention of fruit sucking moth at late *ambia* bahar on pomegranate.
37. Spraying of Cyantraniliprole 10.26 OD @ 9 ml per 10 liter of water at 50 % fruit setting followed by

second need base spraying is recommended for the control of fruit borer in pomegranate.

38. Soil application of granular insecticide fipronil 40% + imidacloprid 40% WG @ 437.5 g/ha along the side of ridge in the month of June is recommended for the control of white grub in sugarcane.

**Plant Pathology and Agri. Microbiology**

39. Seed treatment to gram seeds with MPKV consortium (*Rhizobium*, phosphate solubilizing and potash mobilizing bacteria) @ 25 g/kg seed and application of 75% recommended dose of N, P and K chemical fertilizers is recommended for higher grain yield and saving 25% of recommended dose of chemical fertilizers.
40. Seed treatment to sorghum seeds with MPKV consortium (*Azotobacter*, phosphate solubilizing and potash mobilizing bacteria) @ 25 g/kg seed and application of 75% recommended dose of N, P and K chemical fertilizers is recommended for higher grain yield and saving 25% of recommended dose of chemical fertilizers.
41. Seed biopriming of black gram with MPKV liquid *Rhizobium* and PSB @ 25 ml each/kg seed/litre water for 12 hrs followed by drying in shade for 30 min before sowing and application of 50 % of recommended N and P<sub>2</sub>O<sub>5</sub> (10 : 20 kg N and P<sub>2</sub>O<sub>5</sub>/ha) at the time of sowing is recommended for obtaining higher grain yield, monetary returns and saving of 50 % recommended N and P<sub>2</sub>O<sub>5</sub> under dryland conditions in the medium deep black soils of scarcity zone of Maharashtra.
42. Seed biopriming of chickpea with MPKV liquid *Rhizobium* and PSB @ 25 ml each per litre water/kg seed for 6 hrs followed by drying in shade for 30 min before sowing and application of 50 % of recommended N, 75 % recommended P<sub>2</sub>O<sub>5</sub> and



- 100 % recommended  $K_2O$  (13 : 38 : 30 kg N,  $P_2O_5$  and  $K_2O/ha$ ) at the time of sowing is recommended for obtaining higher grain yield, monetary returns and saving of 50% recommended N and 25 %  $P_2O_5$  under dryland conditions in the medium deep black soils of scarcity zone of Maharashtra.
43. Seed biopriming of green gram with MPKV liquid *Rhizobium* and PSB @ 25 ml each/kg seed/litre water for 12 hrs followed by drying in shade for 30 min before sowing and application of 50 % of recommended N and  $P_2O_5$  (10 : 20 kg N and  $P_2O_5/ha$ ) at the time of sowing is recommended for obtaining higher grain yield, monetary returns and saving of 50 % recommended N and  $P_2O_5$  under dryland conditions in the medium deep black soils of scarcity zone of Maharashtra.
44. Application of 25% of recommended dose of nitrogen ( $62.5 \text{ kg ha}^{-1} \text{ N}$ ) + 75% phosphorus ( $86.25 \text{ kg ha}^{-1} \text{ P}_2\text{O}_5$ ) + 100% potassium ( $115 \text{ kg ha}^{-1} \text{ K}_2\text{O}$ ) and 20 t  $\text{ha}^{-1}$  FYM with sett treatment of PSB @  $1.25 \text{ kg ha}^{-1}$  at the time of planting to suru sugarcane then, after 60 days of planting foliar spray of consortium of endophytic nitrogen fixing bacteria @  $3 \text{ l. ha}^{-1}$  in 500 lit of water to sugarcane in the morning hours is recommended for obtaining equivalent use of recommended dose of fertilizer for cane, sugar yield and quality in medium deep black soils of western Maharashtra.
45. Spraying of fungicide Kresoxim methyl 44.3% SC @ 1 ml per litre water on appearance of disease and second spray after 10 days is recommended for effective management of leaf blight disease, obtaining higher yield and monetary returns in wheat crop.
46. Two sprays of Copper Hydroxide 53.8 % DF@ 1g/liter of water, first at Booting stage and second at 50 % Flowering stage are recommended for management of false smut disease of paddy for obtaining higher grain yield, straw yield and monetary returns.
47. Three sprays of the combi-fungicide azoxystrobin 18.2% + difenconazole 11.4% SC @ 0.1% (1 ml per litre water) at 15 days interval after disease appearance is recommended for effective management of rust disease of sugarcane.
48. For the preventive management of purple seed stain disease in soybean seed production and higher germination, seedling vigour and yield, two sprays of Picoxystrobin 22.52% SC @ 0.1% (1 ml/ L of water) at pods initiation and seed formation stage is recommended.

### **Agril. Engineering**

49. MPKV developed 'LiDAR based sensor module' is recommended for detecting stem of orchard plants within defined range.
50. The "NiceSSM" mobile and web-based real time digital agro-advisory platform developed jointly by Mahatma Phule Krishi Vidyapeeth, GIZ and MANAGE, Hyderabad is recommended for adoption for farmers.
51. Mobile and web based "Phule Decision Support System for Irrigation Scheduling (Phule DSS-IS)" is recommended for decision making support on irrigation water requirement and time of operation of surface, sprinkler and drip irrigation methods using smart weather station data and different irrigation interval strategies for different crops.

### **Farm machinery and power engineering**

52. 'MPKV developed package of improved farm implements' is recommended to save input cost, time, reduce cost of operation, reduces drudgery and increasing yield for Horticultural crops.
53. 'MPKV developed package of improved farm implements' is recommended to save input cost,



time, reduce cost of operation, reduces drudgery and increasing yield for sugarcane crop.

### Agril. Process Engineering

54. Use of 1200 mg ascorbic acid and 200 mg potassium metabisulphide as a preservative per kilogram of custard apple fruit pulp is recommended upto six months storage at  $-20 \pm 2^{\circ}\text{C}$  temperature.

### Interfaculty Department of Irrigation Water Management

55. Application of 80% recommended dose of fertilizer (80:40:40, N:  $\text{P}_2\text{O}_5$ :  $\text{K}_2\text{O}$  kg/ha) of water soluble fertilizers through fertigation in 17 weekly splits as per following schedule is recommended for higher yield, efficient use of water and nutrient for summer bitter melon cultivated in medium deep soils of western Maharashtra.

#### Fertilizer Schedule

Per cent nutrients applied in 17 weekly splits to summer bitter melon

Days after transplanting	Nitrogen(N)		Phosphorus(P)		Potassium(K)	
	%	Kg	%	Kg	%	Kg
1-28 days (4weeks)	25	20.0	30	12.0	20	08.0
29-56 days (4weeks)	30	24.0	40	16.0	30	12.0
57-84 days (4weeks)	30	24.0	20	08.0	30	12.0
85-119 days (5weeks)	15	12.0	10	04.0	20	08.0
<b>Total</b>	<b>100</b>	<b>80.0</b>	<b>100</b>	<b>40.0</b>	<b>100</b>	<b>40.0</b>

#### Soil Water Conservation

56. 'Revised NDSSI' and 'Modified NDSSI' are recommended for analyzing the spectral behavior of suspended particles in reservoir.

### Social Sciences

#### Agril. Economics

57. Geranium distillation unit's Internal Rate of Return was 32.47 per cent with 161 per cent more additional net income to the cultivators through value addition

in geranium. Therefore, it is recommended that group of farmers or rural unemployed may opt geranium distillation units as a new start-up in potential areas.

58. On the basis of price analysis of chickpea in nine major markets (Latur, Daryapur, Hinganghat, Amravati, Nagpur, Akola, Washim, Khamgaon, Murtizapur) of Maharashtra, the prices of chickpea was observed maximum during the months of September to December and comparatively highest in Latur market. Therefore, it is recommended that the farmers may sell their chickpea during the months of September to December in nine major markets, instead of immediate sell after harvest for better price realization.

59. Considering the majority of dryland areas in Maharashtra and the increasing impact of climate change, it has been found that if farmers in dryland areas adopt dairy farming as a joint venture, their total income increases by 23 per cent and the risk is reduced by 21 per cent. Therefore, it is recommended to encourage farmers to take up dairy farming along with agriculture as a source of sustainable income and to reduce risk in dryland areas.

60. The non-basmati rice export from India is highly competitive and diversified with less international trade risk. Benin, Bangladesh, Nepal, Senegal, Togo and Cote D' Ivoire are 40 % export value providers and Benin, Bangladesh, Senegal and Togo are the most stable markets for Indian non-basmati rice. Therefore, it is recommended to encourage the non-basmati rice production and to increase the export of non- basmati rice to stable market and value providing importing countries.

61. Jasmine being a delicate and perishable flower, the fluctuations in its arrivals, did not bring drastic



changes in the prices, indicating relatively stable prices. Therefore, cultivation of Jasmine as a source of assured income is recommended for farmers.

62. The study on trends in arrivals and prices of major foodgrain crops in Dhule, Nandurbar and Jalgaon APMCs indicated that most of the times farmers received up to 91 per cent less price compared to Minimum Support Prices as declared by the Central Government every year for the major foodgrain crops viz; jowar, bajra, maize, wheat, tur and gram during last 11 years (2012-2022). Therefore, it is recommended that, APMC Dhule, Nandurbar and Jalgaon should see that farm produce brought for sale in these APMCs should not be sold below the MSPs declared by the Central Government from time to time and simultaneously, Government should start the procurement of this produce through FCI, NAFED and other Govt. Agencies or Govt. Should adopt price support scheme in order to protect the interest of the farmers and to have the food security.
63. In MahaDBT-Krishi portal for reducing the cancellation of applications after getting selected in lottery and thereby avoiding unnecessary work burden and time lag in process, it is recommended that MahaDBT-Krishi portal should to make provision of preferential system for prioritizing the required component and accordingly to draw the lottery of the beneficiaries based on the preferences given by the farmers.
64. The economic impact analysis of the ICAR FFP research study revealed that B:C ratio of local breed in poultry was 1.72, whereas, Kaveri breed was 2.63. Hence, it is revealed that intervention of Kaveri breed in backyard poultry has given good returns to the respondents. Thus, it is recommended to use improved Kaveri breed in backyard poultry

farming. Further, the availability of day old chicks of improved Kaveri breed is needed at village level. For this purpose the rural youth need to be promoted for development of entrepreneurship on egg incubation.

### Statistics

65. On the basis of path analysis, the highest contribution of FYM in the yield of Rajma was found in both with and without fertilized plots. Hence, an application of fertilizer nutrients as per STCR based yield target equations with FYM is recommended for obtaining higher yield of Rajma, increasing fertilizer use efficiency and maintaining soil health.
66. The Maldives, Saudi Arab and UAE are major importer countries of Indian sheep and goat meat (90.0, 86.0 and 80.0 per cent respectively) and stable markets for prices (77.0, 84.0, and 82.0 per cent respectively). Therefore it is recommended that it needs to concentrate on these countries for export of Indian sheep and goat meat.
67. The Granger Causality Test results showed bidirectional effect on prices of Banana in between Nagpur-Jaipur markets and for Pomegranate in between Delhi-Bengaluru, Bengaluru -Chennai and Bengaluru -Kolkata markets which indicates change in prices has an effect in both the markets. The unidirectional effect on prices of Banana and Pomegranate stating prices in only one market affecting prices in second market as given in table below.

Sr. No.	Market causing effect	Market being affected
<b>A)</b>	<b>Banana</b>	
1	Mumbai	Jaipur, Kolkata
2	Chennai	Kolkata
<b>B)</b>	<b>Pomegranate</b>	
1	Bengaluru	Mumbai, Nagpur





2	Mumbai	Chennai
3	Kolkata	Mumbai
4	Jaipur	Bengaluru, Chennai

It is recommended that the Banana and Pomegranate growers in India should consider the prices of market causing effect before taking decision of selling Banana and Pomegranate in market being affected to avoid potential price risks.

68. The Granger Causality Test results showed bidirectional effect on prices of Onion in between Lasalgaon- Bengaluru markets, for Tomato in between Delhi-Ahmedabad and for Potato in between Mumbai-Pune, Pune-Bengaluru and Bengaluru-Hyderabad markets which indicates change in prices has an effect in both the markets. The unidirectional effect on prices of onion, tomato and potato stating prices in only one market affecting prices in second market as given in table below.

Sr. No.	Market causing effect	Market being affected
<b>A)</b>	<b>Onion</b>	
1	Mumbai	Pune, Bengaluru, Delhi, Chennai
2	Delhi	Pune, Lasalgaon, Bengaluru, Chennai
3	Pune	Chennai
4	Lasalgaon	Chennai
<b>B)</b>	<b>Tomato</b>	
1	Mumbai	Pimpalgaon, Delhi
2	Ahmedabad	Mumbai
3	Chennai	Mumbai, Pimpalgaon, Ahmedabad, Delhi
<b>C)</b>	<b>Potato</b>	
1	Mumbai	Bengaluru, Hyderabad
2	Pune	Hyderabad
3	Delhi	Mumbai, Pune, Agra
4	Ahmedabad	Pune
5	Agra	Mumbai, Pune, Bengaluru, Hyderabad, Ahmedabad

It is recommended that the Onion, Tomato and Potato growers in India should consider the prices of market causing effect before taking decision of selling onion, tomato and potato in market being affected to avoid potential price risks.

### Resistant Source for Biotic and Abiotic stress

69. Based on disease resistance reaction under natural and artificial epiphytotic conditions, *desi* chickpea genophyte RVSSG-64 is recommended as potential donor for dry root rot resistance in the chickpea improvement programme.

### Seed production Programme

<b>Seed Production</b>	University Farm	- 7,313 q
	Farmers Participatory	- 23,880 q
	Pulses Seed Hub	- 2,577 q
	<b>Total</b>	<b>- 33,770 q</b>
<b>Planting Material (No. of grafts)</b>	11.05 Lakhs	
<b>Biopesticides</b>	1322 MT & 400 Lit.	
<b>Biofertilizers</b>	97.43 MT & 8253 Lit.	
<b>Micronutrient formulation</b>	50,000 L	

## 4. Extension Education

Extension education is one of the important mandates of the university. The Directorate of Extension Education (DEE) was set up in 1981 with objectives to conduct extension education activities viz., capacity development of all stakeholders including farmers in different agro-ecosituations, to assess and refine the latest agricultural technologies through on farm trials for location specific applications, to demonstrate the improved technology on the farmer's fields, to show the advantages and benefits of improved technology i.e. result demonstration and to solve local problems in the light of research findings and getting feedback for strengthening research and to provide farm information services through various extension activities. The Directorate of Extension Education was set up in 1981 with following objectives:-

- To initiate, plan, organize and implement all extension education programmes and activities under University jurisdiction.
- To provide farm information services through various extension activities
- To solve local problems in the light of research findings and getting feedback for strengthening research.
- To conduct short and long duration trainings for the benefit of farming community in different agro-ecosituations.
- To assess and refine the latest agricultural technology through front line demonstration for its wider adoption through different extension agencies.
- To co-ordinate the extension education activities in the jurisdiction of University.

- To establish co-ordination between Communication Center, Regional Extension Centers, District Extension Centers and Agricultural Technology Information Center functioning.
- To organize the Farmers Rallies & Exhibitions for technology dissemination.

In addition to this, Directorate performs activities like co-ordination of extension education activities in the jurisdiction of University through its various units viz., Agricultural Technology Information Centre (01), Regional Extension Centres (04), District Extension Centres (05), KrishiVigyanKendras (17) and College Extension Blocks (03) performs this pivotal activity by organizing on campus and off campus extension programmes viz., Training programmes, FLDs, Farmers Rallies, Field Visits, Diagnostic Team Visits, On Farm Trials, Exhibitions, Field days etc. for transfer of technologies and collecting feedback.

### 1. Regional Extension Centres (REC) / District Extension Centres (DEC)

The Regional Extension Centres (2000) and District Extension Centres (2006) have been established in the University jurisdiction to test and transfer the improved technology from time to time in adjoining areas of respective research and educational Institutes. Four RECs are started at the constituent college's viz., Pune, Dhule, Kolhapur and one at Central Campus, Rahuri. Five District Extension Centres (DECs) have been started at different research stations viz., Jalgaon, Padegaon (Satara), Solapur, Digraj (Sangli) and Niphad (Nashik). The RECs consists of four SMS in the subject of Agronomy, Animal Husbandry, Horticulture and Plant protection. These Regional Extension Centres are headed by Associate Professor of Agronomy designated as a Extension



Agronomist. The activities of each REC are governed by Extension Agronomist at regional level which is technically controlled by Director of Extension Education. In each Regional Extension Centres Extension, Agronomist, one Steno and one Driver are working under the T and V Scheme are merged with Extension Education Scheme which is having four Subject Matter Specialists in the discipline of Agronomy, Horticulture, Plant Protection and Animal Science and Dairy Science. These Regional Extension Centres and District Extension Centres does not have separate funding hence University is providing funds from revenue receipts for organization of Extension Activities in their Operational areas. These RECs and DECs are having coordination with Agriculture Technology Management Agency (ATMA) and District Superintending Agriculture Officer (DSAO) for implementation of various Agriculture Programmes for district and also organizing Monthly District Workshop in every month.

The staff under the RECs and DECs usually undertakes activities relating to transfer of technology in the adjacent areas. The activities like monthly district workshops, fortnightly trainings, and demonstrations on farmer's fields, farmers' rallies and technical guidance to farmers are also organized by the centre. Every Regional Extension Center and District Extension Centre are provided with Mobile Crop Dispensary Van with the facilities to undertake soil and water analysis, diagnosis of diseases, insect, pest instantly on the spot in different villages.

## 2. Krishi Vigyan Kendras (KVKs)

There are seventeen KVKs in the jurisdiction of the University. Out of the total KVKs 13 KVKs are operated by the NGOs, one of Yashwantrao Chavan

Maharashtra Open University (YCMOU) while, 4 KVKs viz., KVK-Dhule, KVK-Mohol (Solapur), KVK-Borgaon (Satara) and KVK-Mamurabad Farm (Jalgaon) are directly under the control of the University. These KVKs have been established with the mandates to organize need-based training in agriculture and allied enterprises to practicing farmers, farm women, rural youth and extension functionaries; to conduct front line demonstrations on farmers' fields on various crop production technologies; to conduct on farm trials/adaptive trials in agriculture and allied enterprises based on location specific problems and to organize different extension activities to disseminate the technologies.

## 3. Agricultural College Development Block

Practical training in extension education is being given to the students in College Development Blocks. There are about 60 to 100 villages attached to constituent colleges' viz., Pune, Dhule and Kolhapur. The College Development block also serves as a laboratory to transfer the improved technology developed by the university. The viability and usefulness of technology developed by the university is tested under different field conditions and farming situations. The field staff working at different blocks provides guidance and help to the farming community. The extension staff also extends the efforts to evaluate and record the expected social and economical changes among farmers. The planning and implementation of extension programmes is carried out by the Department of Extension Education at different colleges.

## 4. Agricultural Technology Information Centre (ATIC)

The National Agricultural Technology Project (NATP) provided funds to establish Agricultural Technology Information Centre (ATIC), single window



delivery dissemination and supporting system in 2001 at MPKV, Rahuri. The extension activities like field visits, replying the queries of the farmers and other stakeholders, diagnostic services in coordination with the other departments of University are being performed by the ATIC. Besides, the seed and seedlings, processed products and publications are also sold through ATIC to the end users. Helpline, Kisan Call Centre, separate website and Video Conferencing Unit have started its functioning in this centre for solving the problems of the farmers. The ATIC provides diagnostic services, organizing and participating in Monthly District Workshops and giving advisory services.

## Objectives

The center is functioning with the following objectives

- To provide greater coordination and intensive interaction between the researchers and technology users beyond individual units of research institutions in contributing towards the dissemination of information.
- To serve as a "Single Window System" with an objective to help Farmers and other stakeholders such as Farmer-Entrepreneurs, Extension workers, Development agencies, Non-Government Agencies (NGOs) and private sector organizations to providing solutions to their location- specific problems in agriculture and make available all the technological information along with technology inputs and products for testing and use by them.
- To build up required confidence among farmers and to strengthen linkage between the University and the farmers.
- To provide diagnostic and advisory services such as soil and water testing, plant and livestock health diagnosis and advisory services accordingly.
- To sale and distribute improved products emerging as a result of research being done at SAU's like seeds, planting materials, livestock breeds, fish seed, poultry trains and processed products etc.
- To provide an overview of improved technology through published literatures and other communication materials.
- To overcome technology dissemination loss by providing direct access of farmers to improved expertise as well as technological products.
- To provide an opportunity to University to have resource generation through sale of their technologies.
- Participation in state festivals & exhibitions.

## Diagnostic and Advisory service

- Diagnosis of plants/crops problem
- Management of field problems
- Analysis of soil samples
- First hand information to approaching farmers

## 5. Press, Publicity and Publications

The Communication Centre of Mahatma Phule Krishi Vidyapeeth, Rahuri was established in May 1982 for effective use of mass media in transfer of technology. The unit produces different type of farm literature, publicity of news items and involved in organization of exhibitions, facilitating broadcasting of Agril. Programmes for transfer of technology through All India Radio, Doordarshan and Private Channels. The centre publishes Krishi Darshani, an annual farm diary which is very popular among the farmers. Besides Shri Sugi, a periodical is published before every season of the year. Also an e news-MPKV Happenings and e-Varta are published regularly. Besides DVDs of various crops are prepared by this centre. A Printing Press is also operated by the centre for printing work.





## Mechanisms for Research-Extension Linkage

- Joint Agresco
- Zonal Agricultural Research & Extension Advisory Committee (ZAREAC)
- Monthly District Workshops
- Training Programmes
- Diagnostic Team Visits

## Extension Outreach Programmes

### • ICAR Farmer FIRST programme

The ICAR Farmer FIRST programme entitled “Socio-Economic Empowerment of Farmers through Farming System Interventions for Sustainable Agriculture Development in Ahmednagar District” has been sanctioned to MPKV, Rahuri from 2016-17. The project is being implemented in Chinchvihire and Kangar villages on the theme Integrated Farming Systems. Various extension programmes are being undertaken through this project for the socio-economic development of farmers.

### • ProSoil Project

The ProSoil Project is being implemented in MPKV, Rahuri jurisdiction is collaborating with GIZ, India and MANAGE, Hyderabad on developing and strengthening digital agricultural advisory service and disseminating the agro-advisories through the digital platforms developed by GIZ and MANAGE, Hyderabad since 2016- 17. The NICESSM digital platform was strengthened in Pro-Soil Project which is being implemented on pilot basis in 13 villages of 2 blocks in 2 districts namely Ahmednagar and Dhule comprises Parner and Sakri block respectively. The MPKV has identified a team of 19 MPKV scientists as Content Validators and 9 Subject Matter Specialists from KVKs as a Content Creators and one IT Network

Server and Website Co-ordinator. At present we are reached more than 19,000 farmers and disseminated More than 1.5 lakh agro advisories, in the form of queries’ solution, SMS, posters, video URLs and documented through this NICESSM agro advisory platform.

## Major extension activities (2022-23)

- **19<sup>th</sup> Extension Education Council (EEC) meeting:** The 19<sup>th</sup> Extension Education Council (EEC) meeting was organized on 15<sup>th</sup> March, 2023 under the Chairmanship of Hon’ble Vice-Chancellor Dr. P. G. Patil at MPKV, Rahuri. Hon’ble Members of EEC and Progressive farmers Shri. Bhausahab Shrirang Jadhav, Shri. Samadhan Dayaram Patil and Shri. Sarjerao Appasaheb Patil gave valuable suggestions during the meeting. EEC Member Secretary Dr. T. K. Narute, Director of Extension Education, presented Action taken report and Extension activities conducted during the year 2022-23. EEC Members Dr. Sunil Gorantiwar, Director of Research, Dr. U. D. Chavan, Dean (F/A)& Director of Instruction, Dr. G. K. Sasane, Head, Dept. of Agril. Extn. & Communication and invitees Dr. V.S. Shirke, Director, MCAER, Pune and Shri V. T. Patil, Comptroller MPKV, Rahuri were participated and given valuable suggestions for effective technology application of university for its wider reach.
- **State Level Agriculture Exhibition at Sillod, Dist. Aurangabad:** State level Agril. Exhibition was organized by State Agril. Department, Maharashtra Govt. during 1-5 January 2023 at Sillod, Dist-Aurangabad under the leadership of Hon’ble Agril. Minister Shri. Abdul Sattar. MPKV, Rahuri also participated under the guidance of Hon’ble Vice-Chancellor Dr. P. G. Patil and Dr.



T. K. Narute, Director of Extension Education. MPKV, Rahuri has demonstrated department wise university technology such as drone technology, innovative irrigation technologies and water management as live demonstration. The other departments such as Horticulture, Agronomy, Seed technology, Economics, Agril. Engg., Soil Science, Entomology, Plant Pathology, Microbiology and ATIC etc. also participated and displayed their own stalls at the exhibition. The stalls of all KVKs were display separately and disseminate innovative technologies within the farmers, students and visitors during exhibition. All the staff of different departments were participated in Agril. exhibition.

- Rabi Technology Day and Shivar Pheri:** On the occasion of the 'International Year of Nutritious Cereals 2023', Rabi Day, Seminars, Agricultural Exhibition and Shivar Pheri were organized on January 27, 2023 at Sorghum Improvement Project in coordination with State Department of Agriculture in the university. Commissioner of Agriculture M.S. Shri. Sunil Chavan presided over the function. President, Adarsh Gram Scheme, Padmashri Dr. Popatrao Pawar, Director of Research Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Dean (F/A) Dr. Uttam Chavan, District Superintendent Aril. Officer Shri. Shivaji Jagtap Regsitrar Shri. Pramod Lahale, Associate Deans, Officers of the university and State Dept. of Agriculture, MS were present on this occasion. An exhibition depicting the university technologies was also organized and field demonstration of various varieties of different rabi crops was organized for farming community and other stakeholders. University scientists guided the farmers on this occasion.
- Visit of Hon'ble Vice Chancellor to the remote villages of Satara tehsil:** On 5<sup>th</sup> March, 2023 Hon'ble Vice Chancellor Dr. P. G. Patil, visited the Dare village of Mahableshwar which is remote village. To make necessary improvements and changes in traditional farming methods adopted by farmers and introduced location specific new innovative technologies developed by MPKV, Rahuri. A group discussion and Shivarpheri was conducted in presence of Dr. S. S. Dhane, Ex. Director of Farm, Dr. BSKKV, Dapoli, Shri. Netaji Pawar, Ex.Cane Development Officer, Ajinkyatara Sugar Factory, Satara and Dr. Rajendra Sarkale, General Manager, SDCC, Satata along with Scientist of KVK Borgaon
- Release of Special Issue of Shree Sugi:** Government of India is celebrating the Year- 2023 as the 'International year of millets'. The Directorate of Extension Education had published a special issue of 'Shri Sugi' magazine on Nutricereals in which all nutricereal crop cultivation/ production technologies were added. All RECs, DEC's and KVKs has been undertaken various programmes on this millet year, their yearly programme calendar is also included in the first article of Shri Sugi special issue.
- International millet (Shri Anna) conference:** An International millet (Shri Anna) conference on, 'Enhancing productivity and value addition in millets' was organized during 18-19 March 2023 by online mode at ICAR-IARI, New Delhi. The conference has provided a platform for deliberations on the vital role of millets in improving global food and nutritional security and also in achieving sustainable development (SDGS) of the United Nations viz; reducing



poverty, zero hunger, good health and well-being and climate action. All Associate Deans, All Head of Departments, Regional/ District Centers and all KVKs were organized the webcasting programme at their centers in which faculty/scientists, students, farmers were actively participated and attained the said programme.

- **Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2022:** The Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2022 was organized by MPKV, Rahuri in co-ordination with the State Department of Agriculture, MS on 8th June, 2022 for Nashik, Pune and Kolhapur divisions at Kamdhenu Auditorium, Commissionerate of Animal Husbandry, Pune. Vice Chancellor Dr. P. G. Patil presided over the meeting. Shri. Dheeraj Kumar, Commissioner (Agriculture), Shri Sacchindra Pratap Singh, Commissioner (Animal Husbandry) M. S., Directors Dr. S. R. Gadakh, Shri. Dashrath Tambhale and Shri Narayan Sisode were present on the occasion. Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri made brief presentation on extension activities, recommendations and released varieties during 2021 and guided the participants, While, Joint Directors of Agriculture Shri. Birajdar, Shri. Naikwadi, Shri. Sonawane made presentations about their respective divisions. Heads of Departments, District Supt. Agril. Officers, PD, ATMA, Associate Directors of Research, Crop Specialists, Heads of KVKs, Incharge, RECs and DECS, scientists and officers of Agriculture Department participated in the discussion. In all 190 participants including DSAOs, SDAOs and Programme Co-ordinators from KVKs and Scientists from university attended the said meeting.
- **GODHAN -2022:** MPKV, Rahuri in co-ordination with AGOROWON, Pune has organized GODHAN -2022 exhibition at Pune during May 27-29, 2022. The exhibition was inaugurated at the hands of Hon. Deputy Chief Minister, MS Shri. Ajit Pawar, while Vice Chancellor Dr. P. G. Patil presided over the function. On this occasion Hon. Executive Council Member and MLC Shri. Narendra Darade, Shri. Dattatrya Pansare, Shri Dattatraya Ogale, former Vice Chancellor DBSKKV, Dapoli Dr. Shankarrao Magar, Collector, Pune Dr. Rajesh Deshmukh, Director of Extension Education and Research Dr. S. R. Gadakh, Dean (F/A) Dr. P.N. Rasal was present. Large number of farmers and dairy entrepreneurs visited this exhibition.
- **Agriculture Technology Parayan Programme Organized:** An innovative concept by Vice Chancellor Dr. P.G. Patil an *Agriculture Technology Parayan* Programme organized jointly organized by the MPKV, Rahuri and Dept. of Agriculture M.S. in the jurisdiction of MPKV, Rahuri during March -June 2022. Incharge, RECs and DECS, KVKs, scientists and officers of Agriculture Department participated in the programme. In ahmednagar district *Agriculture Technology Parayan* concept was started at the hands of Director of Extension Education and Research Dr. S. R. Gadakh. While, the same programmes were organized at Solapur, Kolhapur, Nashik and Nandurbar.
- **Krishi Din and Vanmohotsav organized:** The *Krishi Din Vanmohotsav* was organized on July 4, 2022 by MPKV, Rahuri in the university jurisdiction. This programme was organized in memory of Former Chief Minister of Maharashtra Late Vasant Rao Naik. The programme was participated by Vice Chancellor Dr. P. G. Patil, Dean



(F/A) Dr. P.N. Rasal and Director of Research and Extension Education Dr. S. R. Gadakh, Registrar Shri. Pramod Lahale and other university scientists. The university has planned tree plantation drive during 1-7 July, 2022. In all target of more than 100000 saplings of various trees including fruit crops will be planted under university jurisdiction.

- **Maza Ek Diwas Mazya Balirajasathi:** As per the directives from state government an initiative on *Maza Ek Diwas Mazya Balirajasathi* was organized under MPKV, Rahuri jurisdiction on September 1, 2022. In all 46 centers have organized various programmes and visited the farmers field and guided them various topics pertaining crop technologies, integrated nutrient management technologies, pest and disease management technologies etc. Vice Chancellor Dr. P. G. Patil, Dean (F/A) Dr. P.N. Rasal and Director of Research and Extension Education Dr. S. R. Gadakh, Registrar Shri. Pramod Lahale participated in the programme. In all 175 university scientists reached to 1409 farmers field during this programme.
- **Training on Goat rearing and management:** Mahatma Phule Krishi Vidyapeeth, Rahuri and All India Coordinated Goat Improvement Project jointly organized Goat rearing Training Program under ICAR Farmer FIRST Programme for the farmers of *Kandgaon* and *Tambhere* on February 10, 2023. On this occasion, Director of Extension Education Dr. Tanaji Narute presided over the programme. The Principal Investigator of the ICAR-Farmer First Program Dr. Pandit Kharde, Chief Scientist of All India Coordinated Sangamneri Goat Improvement Project Dr. Sanjay Mandkamale, Assistant Professor Dr. Dr. Ravindra Nimse, Co-PI Sachin Sadaphal was present. On this occasion, Sangamneri buck

and MPKV Calendar was distributed to the farmers by the dignitaries.

- **The “Phule baliraja” Pre-Launch Application event:** The Pro-Soil Project is being implemented at MPKV, Rahuri in collaboration with GIZ, India, MANAGE, KVKs and Department of Agriculture, Govt. of Maharashtra. As a part of this collaboration, MPKV is implementing digital agro-advisories through “Phule Baliraja” on pilot basis in 10 districts under the jurisdiction of MPKV, Rahuri. The “Phule baliraja” Pre-Launch Application event organized on 24<sup>th</sup> November, 2022 at Pune under the guidance of Dr. P. G. Patil Hon. Vice-Chancellor. This Pre-launch Event attended by Shri G S Rawat, CGM, NABARD, Pune; Dr Pramod Rasal, Director of Instruction & Dean Faculty of Agriculture, MPKV, Rahuri; Dr. Sunil Gorantiwar, Director of Research, MPKV Rahuri; Dr. Tanhaji Narute, Director Extension Education, MPKV Rahuri; “Phule Baliraja” is a Digital Agro-advisory Platform through which farmer can receive crop specific, crop stage specific and agro-climatic zone based agro-advisories for farmers in jurisdiction of MPKV, Rahuri.
- **Participation in various Exhibitions:** Directorate of Extension Education, MPKV, Rahuri has participated and organized MPKV stalls to showcase the University technology at the following places.

Sr. No	Venue of Agril. Exhibitions	Dates of Exhibitions
1	Chatrapati Shivaji College, Shrigonda	14 <sup>th</sup> October 2022
2	Indradhanushya – 2022 MPKV Rahuri	5-9 November 2022
3	Joint Agrosco – 2022 at Dr. BSKKV, Dapoli	14-16 December 2022
4	MPKV Climex - 2022	20-22 December 2022



5	Agro-tech – 2022 at PDKV, Akola	27-30 December 2022
6	State Level Agriculture Exhibition, Sillod	1-5 January 2023
7	Rabi Technology Day and Shivar Pheri, MPKV, Rahuri	27 <sup>th</sup> January 2023
8	Saijyoti Swayam Sahayata Bachat Gat Yatra, Agril. Mahotsav and Animal Exhibition, Ahmednager	10-14 February 2023
9	Maha Pashudhan Expo – 2023, Shirdi	24-26 March 2023

- **Live broadcasting of P.M. Kisan Samman Samelan program:** P.M. Kisan Samman Samelan program organized in the premises of ICAR, New Delhi was live broadcasted in digital classroom of PGI, MPKV, Rahuri on October 17, 2022. Dr. Shrimant Ranpise, AD(LAE), Dr. Sunil Gorantiwar, Head of Agricultural Engineering Department, Dr. Tulsidas Bastewad, I/C Farm Implements & machinery, Dr. Pandit Kharde, I/C Communication Center and Dr. Dattatraya Pacarne, Manager, ATIC were present. In Delhi two day Kisan Samman Samelan was Inaugurated of by the hands of Prime Minister Hon. Mr. Narendra Modi. On this occasion Union Minister of Agriculture and Farmers Welfare Shri. Narendra Singh Tomar, Environment and Chemical Fertilizers Union Minister Shri. Mansukh Malviya and Union Minister of State for Agriculture and Farmers Welfare Shri. Kailash Chaudhary were present. For this live programme University scientists, students and farmers were present in large numbers.
- A one day training programme on Soybean and Red gram Production Technology was organized under the ICAR Farmer FIRST programme in

coordination with Department of Agriculture on June 16, 2022. Soybean Breeder Dr. Milind Deshmukh, Pulse Scientist Dr. N.S. Kute, Seed research Officer Dr. Vijay Shelar was present and guided the farmers during the technical session. More than sixty progressive farmers of *Tambhere, Kanadgaon, chichvihire and Kangar* village were benefitted through this training programme.

- **Visit to ICAR Farmer FIRST Village:** Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune along with scientists from ICAR ATARI, Pune visited the MPKVs ICAR FFP village Chinchvihire on June 10, 2022. The team visited various demonstration plots vermicompost unit and other activities of under the project.

### KVK Activities

- **Action Plan Workshop of KVK (Hybrid mode):** Mahatma Phule Krishi Vidyapeeth, Rahuri and ICAR-ATARI, Zone VIII, Pune jointly organized an Action Plan Workshop of KVKs for western Maharashtra during 30<sup>th</sup> June, 2022 at MPKV, Rahuri (Offline & online- Hybrid mode). The workshop was inaugurated by Dr. S.R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri. Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune guided the participant virtually. The university scientists guided the participants. During the workshop the Programme Co-ordinators of respective KVKs presented their action plan through offline mode and it was finalized in consultation with university experts while, all the university experts and Subject Matter Specialists of KVKs participated through online mode. The Heads of Departments, Programme Co-ordinators, SMSs and other staff of KVKs participated in the programme.



- Scientific Advisory Committee (SAC) meeting:** As a regular phenomenon, every KVK has to conduct the Scientific Advisory Committee (SAC) meetings every year. Accordingly SAC meetings were held at Krishi Vigyan Kendra, Borgaon, Jalgaon, Dhule and Mohol during December 12, 27, 28 and 29, 2022 respectively (Offline & online-Hybrid mode). The meetings were organized to review the progress made by KVK and their future action plan. The SAC meetings were chaired by Hon'ble Vice Chancellor Dr. P. G. Patil (online mode), in the presence of Director of Extension Education Dr. T. K. Narute (offline mode) and Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune. All members of SAC were participated and guided the KVK staff for effective implementation of the various activities for the farming community.
- Workshop on Natural Farming for KVKs:** MPKV, Rahuri has organized one day workshop on Natural Farming for Krishi Vigyan Kendra under university jurisdiction on August 30, 2022. Vice Chancellor Dr. P. G. Patil presided over the programme. Director of Research and Extension Education Dr. S. R. Gadakh, Dean (F/A) Dr. P.N. Rasal, Director ICAR-ATARI Dr. Lakhan Singh and Director, MCAER Dr. V. S. Shirke were present on the occasion. The experts Dr. U. S. Surve, Asso. Prof. (Agronomy) & Agronomist, IFS Project, Shri. Manoj Solanki, President, Akshaya Krishi Pariwar, Kutch, Gujarat, Dr. Ravindra Singh, Senior Scientist and Head, KVK, Kolhapur-II, Dr. Namdev Mhaskar, Jr. Scientist (Agro.) AICRP on IFS, DBSKKV, Dapoli had delivered lecture on various topics pertaining to natural farming. In all more than 70 KVK scientists participated in the workshop.
- Agricultural Technology Day:** Agricultural Technology Day was celebrated at Krishi Vigyan Kendra, Dhule on 09<sup>th</sup> March, 2023. The function was inaugurated by Dr. C. D. Deokar, Associate Dean, College of Agriculture, Dhule who also presided over the inaugural session. Shri. Shantaram Malpure, DSAO, Dhule was the chief guest at this occasion. Amongst the other delegates were Dr. Rahul Desale, Principal, Agril Technology School, Dhule, Shri. Nekichand Suryawanshi, NABARD, Dhule, Dr. Dinesh Nandre, Programme Coordinator, KVK, Dhule, Dr. Khushal Barhate, Bajra Breeder, Bajara Research Station, Dhule. Dr. Dinesh Nandre made the introductory remarks. At the outset he welcomed all the guests and farmer participants. He also explained the programme schedule and role of KVK in technology transfer in Dhule district.
- Training programme on Use of Drone in Agriculture:** A training programme on 'Use of Drone in Agriculture' is organized at Krishi Vigyan Kendra, Dhule in collaboration with Syngenta India Pvt. Ltd. on July 29, 2022. The programme was participated by Associate Dean, Dhule D. C.D. Deokar, Programme Co-ordinator, KVK, Dr. Dinesh Nandre, Sub Divisional Agriculture Officer Shri. Shantaram Malpure, Regional Marketing Head Syngenta India Pvt. Ltd Shri. Tukaram Autee. In all large number of farmers attended the training programme. A demonstration on application of drone in agriculture was organized for farming community.
- World Soil Day:** Krishi Vigyan Kendra viz; Dhule, Jalgaon, Borgaon and Mohol under university jurisdiction organized World Soil Day programme in coordination with ICAR-ATARI, Pune on





December 05, 2022. In all large number of farmers participated in the said programme.

- **Garib Kalyan Sammelan:** Krishi Vigyan Kendra, Dhule, Jalgaon, Borgaon and Mohol under university jurisdiction organized *Garib Kalyan Sammelan (Online web Interaction)* in coordination with ICAR-ATARI, Pune on May 31, 2022. In all large number of farmers participated the programme.
- **Azadi Ka Amrit Mohotsav : Kisan Bhagidari Prathmikata Hamari abhiyan Organized:** Krishi Vigyan Kendra, Dhule, and Borgaon under

university jurisdiction organized *Farmers Rallies* during April 25-30 in coordination with ICAR-ATARI, Pune under *Azadi Ka Amrit Mohotsav*. In all large number of farmers participated the programme.

- **Kisan Bhagidari Prathmikata Hamari abhiyan Organized:** Krishi Vigyan Kendra, Dhule, Jalgaon, Borgaon and Mohol under university jurisdiction organized *Garib Kalyan Sammelan (Online web Interaction)* in coordination with ICAR-ATARI, Pune on May 31, 2022. In all large number of farmers participated the programme.



## Online and Offline Extension Education Activities (2022-23)

Sr. No.	Activity	( 2022-23 )	
		No. of activities	Participant
<b>1</b>	<b>Training Programmes organized</b>		
i.	For farmers, farm women and youth	375	23657
ii.	For staff of development department (State Agril Dept and others)	105	2205
iii.	Interaction training programme between farmers and scientists	177	5780
<b>2</b>	<b>Workshop, seminars participated</b>		
i.	Monthly district workshops	79	1785
ii	Farmer Scientists Forum meetings organized	103	2060
<b>3</b>	<b>Demonstrations and farm trials</b>		
i.	Method demonstrations	410	3948
ii.	Result demonstrations / Assessment Trials (OFTs)	647	647
iii.	Front line demonstrations & Adaptive trials	927	927
<b>4</b>	<b>Other extension education programmes</b>		
i.	Meeting and group discussion (Kisan Goshti etc.)	256	7360
ii.	Field visit/shivarpheries	410	5125
iii.	Field days	192	1640
iv.	Farm and home visits	520	520
v.	Farmers rallies organized and participated	18	Mass outreach
vi.	Agril. Exhibition organized / participated	20	
vii	Diagnostic team visit	510	2647
vii.	Surveillance team visit		
<b>5</b>	<b>Media Coverage</b>		
i	Programme News	1339	Mass outreach
ii	AIR Programmes	309	
iii	TV Programmes	59	
iv	University Programmes	234	

**5. Major Events**

**April, 2022**

**1. Padmashri Shri. Popatrao Pawar's visit to the watershed area development project of the university**



April 21, 2022. Padmashri Shri. Popatrao Pawar, Executive Director of Adarsh Village Scheme, M.S. visited the ongoing work of 953 ha. Watershed project at MPKV, Rahuri. On this occasion, he reviewed the progress of Watershed Development Research and Training Centre. On this occasion Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh, Dean, F/A Dr. P. N. Rasal, University Engineer Mr. Milind Dhoke, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Head, Soil and Water Conservation Engineering Department Dr. Sachin Nandgude were present. Vice Chancellor Dr. P. G. Patil while guiding said that it is because of Shri. Popatrao Pawar's foresight that the catchment area development work is being done in the university. If you want to do any great work, you have to overcome endless difficulties and make continuous efforts. This project will definitely be a guide for everyone. On this occasion Padmashri Shri. Popatrao Pawar said that in order to deal with climate change successfully, it is necessary to make efforts in terms of carbon stabilization and innovative planning of soil and water resources available through catchment area development is necessary. Dr. S. R. Gadakh expressed his views. Dr. D. D. Pawar gave information about the project. Dr. Sachin Nandgude presented an overview of the project's work done so far. On the occasion the Heads of the Department Dr. S. D. Gorantiwar, Dr. U. D. Chavan, Dr. T. K. Narute, Dr. B. D. Bhakare, Dr. M.

G. Shinde, Dr. S. D. Mandkamale were present. The programmeme was coordinated by Dr. V. N. Barai and Dr. A. A. Atre expressed thanks. Staff and students of the Department of Soil and Water Conservation were present on this occasion.

**2. Shri. Kiran Kothari and Mr. Ravindra Pawar are MPKV Idols for the month of April**



April 1, 2022. Dr. P.G. Patil, Vice Chancellor, MPKV, Rahuri has put forward the concept of MPKV Idol, where, the work of a progressive farmer and successful agricultural entrepreneur alumni of MPKV is being displayed every month at the entrance of the university at Agricultural Colleges, Agricultural Research Centers, KVKs and Agril. Tech. Schools. The work done by these Idols will motivate the students, rural youths and inspire them for innovative work. Progressive farmer Shri. Ravindra Pawar is from Satmane village of Malegaon taluka of Nasik district. He is cultivating pomegranates and exporting them to Europe and Asia. He has created the machines that can be used in agriculture from his own experience and has made 90 percent of agriculture labour free. He has successfully adopted crop cover technology for grapes and pomegranate. Shri. Kiran Kothari is an agricultural entrepreneur who obtained B.Sc (Agri.) degree from College of Agriculture, Pune. Shri. Kothari through Kothari Agritech Pvt Ltd has created quality products for farmers using latest Israeli technology, cent percent automation in manufacturing with the help of latest systems based on European technology. Therefore, he has succeeded in keeping the quality of all products as per international standards.





### 3. MoU for Research on Nano-Sulphur between MPKV, Rahuri and Central Cotton Technology Research Institute, Mumbai



April 1, 2022. A MoU between MPKV, Rahuri and ICAR-Central Cotton Technology Research Institute (CIRCOT), Mumbai for research on use of nano-sulphur as fertilizer was signed at Central Cotton Technology Research Institute, Mumbai. Vice Chancellor Dr. P.G. Patil and Dr. Sujata Saxena, Director, ICAR-CIRCOT signed on the said agreement. On this occasion Dr. Ashok Kumar Bharimalla, Senior Scientist, CICR and Dr. B. D. Bhakare, Head, Department of Soil Science, scientists Dr. Manoj Mahawar and Dr. Anil Durgude were present. The main objective of the agreement is to conduct a three-year study on the effect of nano-sulphur on soybean production.

### 4. 40 KW Solar power project approved to ICRTC, College of Agriculture, Pune



April 14, 2022. The Government of Maharashtra has started the project of Indigenous Cow Research and Training Center (ICRTC) through the Department of Animal Husbandry and Dairy Science, College of Agriculture, Pune. Under this project, Sahiwal, Rathi,

Tharparkar, Gir, Lal Sindhi and the famous Khillar cows of Maharashtra are being reared and conserved and a comparative study is being done on them. The project needs to be self-sufficient in terms of energy requirements for organic farming using natural resources. For this, 40 KW solar project has been sanctioned through Maharashtra Energy Development Agency (MEDA). This solar power project has been approved with the efforts of Vice Chancellor Dr. P. G. Patil. This will help in generating the energy required for the entire cowshed (dairy) naturally at the point of consumption and that too in an environmentally complementary manner. This will be the first and only solar energybased animal husbandry project in Maharashtra. Associate Dean of the college Dr. S. D. Masalkar took special efforts. Director General, Maharashtra Energy Development Agency (MEDA) Shri. Ravindra Jagtap, Mr. Samudragupta Patil, Divisional General Manager, Pune Division and Shri. Vijay Kote, Deputy Director (Accounts) provided valuable support for this project.

### 5. Bharat Ratna Dr. Babasaheb Ambedkar's birth anniversary celebrated



April 14, 2022. The birth anniversary of Bharat Ratna Dr. Babasaheb Ambedkar was enthusiastically celebrated at MPKV, Rahuri. A programme was organized on this occasion. Vice Chancellor Dr. P. G. Patil presided over this programme. Dr. Sunil Kawade, Head, Department of Political Science, Ahmednagar College delivered the address. Vice Chancellor Dr. Patil urged the students to follow the ideals of the great personality. Dr. Kawade in his address put forth the life history of Dr. Ambedkar and highlighted his educational status and contribution to the nation. On this occasion, Dr. S. R. Gadakh, Director

of Research and Extension Education, Dr. P. N. Rasal, Dean, F/A, Registrar Shri. Dr. Pramod Lahale, Associate Dean of Halgaon Agricultural College Dr. M. C. Ahire, Director of National Service Scheme and Student Welfare Officer Dr. Mahavirsing Chauhan and Sports Officer Prof. D. M. Gaikwad was present on the dias.

May, 2022

### 6. Successful organization of Godhan-2022 at Pune



May 27-29, 2022. Godhan-2022, a Livestock Exhibition was organized at Indigenous Cow Research and Training Center (ICRTC), College of Agriculture, Pune as a joint initiative of MPKV, Rahuri and Indigenous Cow Research and Training Center (ICRTC). It was inaugurated by Hon'ble Shri. Ajit Pawar, Deputy Chief Minister, Maharashtra State. Speaking on the occasion, he said that if we look at the history of agriculture, livestock is very important in agriculture development. It has made a great contribution to the prosperity of farmers in India. In his presidential speech, Vice Chancellor Dr. P. G. Patil said that activities like Goparikrama along with research and conservation of indigenous cow are important to generate positive energy. Indian culture has been created by combining native cows, agriculture and health. On this occasion, Member of Legislative Council and Members of Executive Council Mr. Narendra Darade, Mr. Dattatraya Pansare, Shri. Dattatraya Ugale, Former Vice Chancellor of DBSKKV, Dapoli Dr. S. S. Magar, District Collector of Pune Dr. Rajesh Deshmukh, Director of Research and Extension Education Dr. S. R. Gadakh, Dean, F/A Dr. P. N. Rasal, Registrar Shri. Pramod Lahale, Associate

Dean of Pune Agriculture College Dr. S. D. Masalkar and Incharge Scientist, ICRTC Dr. Somnath Mane were present. This programme was proposed by Mr. Adinath Chavan, Editor, Sakal Agrowon, while, Dr. Dheeraj Kankhare expressed thanks.

### 7. Valedictory programmeme of Godhan-2022 Exhibition



May 29, 2022. Godhan-2022 programmeme was organized at Indigenous Cow Research and Training Center (ICRTC), College of Agriculture, Pune. Shri. Kadsiddheshwar Swami of Kanheri Math, Kolhapur was present as a Chief Guest for this programmeme. Vice Chancellor Dr. P. G. Patil presided over the programmeme. Associate Dean of College of Agriculture, Pune Dr. S. D. Masalkar, Head, ICRTC Dr. Somnath Mane, Dr. Dheeraj Kankhare were present for this programmeme. On this occasion Vice Chancellor Dr. P. G. Patil in his address said that everyone needs to work together for soil fertility. For this, the university is providing guidance in all aspects. Integrated farming system will be useful now. On this occasion Shri. Kadsiddheshwar Swami said that while the country and agriculture are progressing, on the other hand pollution has increased in soil, water and human health. If this is to be changed, there is a need to improve soil fertility and increase native cattle breeding. On this occasion, information was displayed for the farmers about the different breeds of indigenous cows, milk processing, biogas, manure and cow urine composting process in the exhibition.

### 8. MPKV celebrated the 62nd Maharashtra Day with enthusiasm

May 1, 2022. MPKV, Rahuri celebrated the 62nd





Maharashtra Day and International Labour Day with enthusiasm. On this occasion Vice Chancellor Dr. P. G. Patil hoisted the flag. Dr. Patil in his address recollected the history of establishment of Maharashtra Day. He said that everyone needs to contribute significantly for the welfare of farmers. On this occasion, University Directors and Officers, staff, students were present. This programme was coordinated by Security Officer Shri. Gorakshanath Shete and N.C.C. Officer Dr. Sunil Fulsawange.

**9. Shri. Dilip Deshmukh and Shri. Babasaheb Sapkal are the MPKV Idols for the month of May**



May 1, 2022. MPKV, Rahuri is implementing the concept of MPKV Idols put forth by Vice Chancellor Dr. P. G. Patil. Shri. Dilip Deshmukh and Shri. Babasaheb Sapkal are the MPKV Idols for the month of May. Shri. Dilip Deshmukh is an agriculture graduate from College of Agriculture, Dhule. He is the Director of Nirmal Seeds Pvt. Ltd. His seed company has developed more than 400 varieties of 35 crops. The company is engaged in providing good quality seed to the farmers. Shri. Babasaheb Sapkal initially worked as a farm labourer. But, later earned a name as a successful cowherd. He

possesses 20 R of land and produce milk upto 400 litres per day throughout the year from 26 crossbred cows. He has successfully used frost irrigation system for temperature control in summer and also use milking machines to milk the cows. The management of green fodder required for the whole year by buying fodder for animals by adopting silage technology and storing it in pits is very important.

**10. Agricultural Technology Transfer through *Krishi Parayan***



May 24-25, 2022. *Krishi Parayan*, an innovative agricultural technology transfer programme conceptualized by Vice Chancellor Dr. P. G. Patil was launched in the jurisdiction of MPKV, Rahuri. One such programme was organized in the ICAR FFP village Tambhere in Rahuri taluka of Ahmednagar district in association with State Department of Agriculture, Government of Maharashtra. Dr. S. R. Gadakh, Director of Research and Extension education presided over the programme. Shri. Shivajirao Jagtap, District Superintendent Agriculture Officer of Ahmednagar District was present on this occasion. Sarpanch of Tambhere village Shri. Nitin Gagare, Dr. P. B. Kharde, Officer Incharge, Communication Centre, Taluka Agriculture Officer Shri. Mahendra Thoke, Manager, ATIC Dr. Dattatraya Pacharane, scientists Dr. A. G. Durgude, Dr. A. R. Walunj, Dr. Nandkumar Bhute, Dr. Prakash More were present for the programme. Dr. Gadakh said that the *Krishi Parayan* will benefit the farmers. Scientists guided on various aspects.

**11. IAS officers trained in university**

May 18-20, 2022. A contingent of probationary IAS officers arrived on behalf of YASHDA Institute,





Pune for a three day training course at MPKV, Rahuri. These officials visited various projects of the university during this three day programmeme and took information about various aspects of agriculture. Vice Chancellor Dr. P. G. Patil interacted with the officers. On this occasion, Dr. S. R. Gadakh, Director of Research and Extension Education reviewed the research and extension work, while, Dr. P. N. Rasal, Dean, F/A presented the education work of the university. They interacted with the Heads of all Departments. Dr. S. D. Gorantiwar, Head of Agril. Engg. And PI,CAAST-CSAWM project briefed about the CAAST activities and Drone Technology. Dr. Vijay Shelar, Chief Scientist, Seed Technology Research Scheme spoke on the current status and future challenges of intellectual property of MPKV, Rahuri, while, Deputy Registrar Mr. V. T. Patil briefed about the administration and the statute of the Krishi Vidyapeeth. The entire execution of the university visit and training of these officials was coordinated by Dr. P. B. Kharde, Officer Incharge, Communication Centre.

## 12. Fruit and Vegetable Processing training organized at Krishi Vigyan Kendra, Dhule



May 18-20, 2022. A three day training programmeme on Fruit and Vegetable Processing was organized at Krishi Vigyan Kendra, Dhule. The said training was organized under the capacity building component under Pradhan Mantri Micro Food Processing Udyog Upgradation Yojana in association with Krishi Vigyan Kendra, Dhule and Agriculture Department, Dhule. Dr. C. D. Deokar, Associate Dean of the college inaugurated the programmeme and guided the trainees. In the technical sessions Dr. Dinesh Nandre, Senior Scientist, KVK, Dhule, Subject Matter Specialist Smt. Amrita Raut, Mr. Rohit Kadu and Dr. Dhanraj Choudhary provided indepth guidance on fruit and vegetable processing as well as entrepreneurship. 30 trainees were admitted to this three-day training. The said trainees came from urban as well as rural areas of Dhule district.

## June, 2022

### 13. ZAREAC meeting for Kharif season concluded at Pune



June 8, 2022. The Zonal Agricultural Research and Extension Advisory Meeting for Kharif- 2022 season was organized at Kamdhenu Auditorium of Animal Husbandry Commissionerate, Pune. Vice Chancellor Dr. P. G. Patil presided over the meeting. Dr. Patil in his presidential address hoped for a good collaboration between SAU and Agriculture Department for the benefit of farmers. At this time, the State Agriculture Commissioner Shri. Dheeraj Kumar on behalf of the state's agriculture department promised full cooperation to the agricultural universities in all aspects of research, experimentation and extension. State Animal Husbandry Commissioner Shri. Sachindra Pratap Singh



said that agricultural research and extension are the two wheels of the farmer's development cart. Dr. S. R. Gadakh, Director of Research and Extension Education presented a review of various crop varieties, machinery, crop yield increase and crop protection equations, various research recommendations and extension work disseminated by the university in the previous year. Joint Directors of Agriculture of Pune, Kolhapur and Nashik Agriculture Departments namely Shri. Rafiq Naikwadi, Shri. Basavaraj Birajdar and Shri. Vivek Sonawane presented the reports of their departments. University scientists Dr. Milind Deshmukh and Dr. Nandkumar Bhute guided on soybean crop production technology and pest and disease management in kharif crops, respectively.

**14. Shri. Nitin Gaikwad and Shri. Amit Padol are MPKV Idols for the month of June**



June 1, 2022. Shri. Nitin Gaikwad and Shri. Amit Padol are the MPKV Idols for the month of June. This is a new concept put forth by Vice Chancellor Dr. P. G. Patil and started during 2021. Shri. Padol is an agricultural entrepreneur, B. Sc. (Agri.) from RCSM College of Agriculture, Kolhapur and ABM from College of Agriculture, Pune. Shri. Padol has established a cold storage unit for grapes. He is engaged in export of grapes and pomegranate to U.K. and European countries. His successful voyage as a grape cultivator to exporter is a good example for other farmers. Shri. Nitin Gaikwad is a progressive farmer from Mawal taluka of Pune district. He has obtained record production of Phule Samruddhi variety of rice propagated by MPKV, Rahuri and won the first rank for two consecutive years from Mawal taluka and Pune district in the crop competition organized by the

Department of Agriculture. Mr. Gaikwad has adopted the improved nursery technology, four-step rice cultivation, integrated fertilizer, pest, disease and weed management for rice crop value addition and integrated farming system in rice cultivation.

**15. MoU between MPKV, Rahuri and Israel Ministry of Tourism**



June 7, 2022. A MoU was signed between MPKV, Rahuri and Ministry of Tourism, Israel. The programmeme was presided over by Vice Chancellor Dr. P. G. Patil. The Director of Israel Ministry of Tourism Mr. Sammy Yahia, Director of Research and Extension Education. Dr. S. R. Gadakh, Dean, F/A Dr. P. N. Rasal, Registrar Shri. Pramod Lahale, Comptroller Dr. B. D. Bhakare, Chief Executive Officer of ISKCON India Dr. Pushkarna, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. M. C. Ahire, Heads of Department Dr. M. S. Mane, Dr. U. D. Chavan and Vice Chancellor's Technical Officer Dr. Pawan Kulwal were present on this occasion. Dr. Patil hoped for a good mutual cooperation for the MoU. Mr. Sammy Yahia gave information about advanced engineering technologies, automated sensors and control methods in the agricultural sector, and biological pesticides in Israel. Dr. Pushkarana said that experiential learning is important in education and also informed about the advanced technology in Israel.

**16. International Yoga Day celebration at College of Agriculture, Pune**

June 21, 2022. The 8th International Yoga Day was celebrated at College of Agriculture, Pune. Vice Chancellor Dr. P. G. Patil said that for the past two years, there were no major public events on the



occasion of International Yoga Day due to the Corona epidemic. But this year it has become possible and therefore, not only on this day but everyone should study yoga regularly and make the concept of Yoga for Humanity worthwhile as given by the United Nations. Associate Dean Dr. S. D. Masalkar was also present on this occasion. A large number of students of Agriculture College, Pune, volunteers of National Service Scheme and programme officers, teachers and non-teaching staff attended the said programme. On the occasion of International Yoga Day, various competitions such as poetry writing, essay writing, poster (mural) competition, slogan writing and yoga exercises were organized under the National Service Scheme of the college. The winners of the competition were felicitated with certificates by the Vice Chancellor.

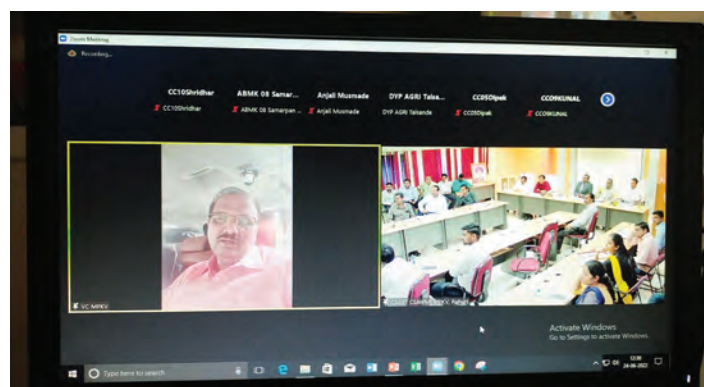
### 17. Sale of onion seeds started through Phule Agromart online portal



June 14, 2022. MPKV's kharif onion seed sale through online portal was inaugurated by Vice Chancellor Dr. P. G. Patil. On this occasion, Director of Research and Extension Education Dr. S. R. Gadakh, Chief Scientist (Seeds) Dr. A. V. Solanke,

Head, Department of Horticulture Dr. S. A. Ranpise were present. Vice Chancellor Dr. P. G. Patil said that the online marketing of seed will benefit the farmers. Seed Production Officer Dr. C. B. Salunkhe gave the introductory remarks. Dr. Dnyaneshwar Kshirsagar expressed thanks. This programme Dr. Madhukar Bhalekar, Dr. Vijay Shelar, Dr. Suresh Zanjare, Dr. B. D. Patil, Dr. Kailas Gagare, Shri. B. T. Shete, Dr. D. S. Thackeray, Dr. S. R. Dhonde, Dr. A. V. Suryavanshi, Dr. R. B. Mane, officers and staff were present.

### 18. Organization of brainstorming workshop



June 24, 2022. A brainstorming workshop on Intellectual Property Rights was organized at MPKV, Rahuri by the Centre for Advanced Agriculture Science and Technology (CAAST-CSAWM) under National Higher Education Project funded by Indian Council of Agricultural Research, New Delhi and World Bank. Vice Chancellor Dr. P. G. Patil presided over this programme. Expert Examiner of Patents and Designs, Department of Commerce and Industry, Government of India, Mumbai Mr. Atul Khade was the keynote speaker for this programme. On this occasion, Director of Research and Extension Education Dr. S. R. Gadakh, Associate Dean, DrASCAET Dr. D. D. Pawar, Head, IFD of IWM Dr. M. S. Mane, Head, Department of FIM Dr. S. M. Nalawade were present for the programme Mr. Atul Khade gave detailed guidance on how to file patent, copyright and geographical indications. Dr. Mane gave the introductory remarks. Dr. Nalawade expressed thanks. The programme was coordinated by Dr. Shubhangi Ghadge. The convener of this programme was Dr. S. D. Gorantiwar, PI, CAAST-CSAWM and Co-PI Dr. M. G. Shinde was the Organizing Secretary. All



department heads, scientists and students were present for this programme.

### 19. Best Design Award won by Agricultural Engineering students



June 14, 2022. A team of 25 Agricultural Engineering degree students from Dr. Annasaheb Shinde College of Agricultural Engineering and Technology, MPKV, Rahuri participated in the national level TIFAN-2022 programme of Society of Automotive Engineers held at central campus, Rahuri. This team bagged the first best design award in the tournament. A total of 30 teams from across the country participated in this competition. This award was given for the manufacture of automatic onion harvester and Rs. twenty thousand cash prize was received. Awards were given in seven different categories in this competition. Vice Chancellor Dr. P.G. Patil, Associate Dean Dr. D. D. Pawar and Head, Department of FIM Dr. S. M. Nalawade congratulated the successful students.

### 20. Training programme organized under ICAR Farmer FIRST project



June 16, 2022. A farmer training programme on soybean and red gram production technology

was organized at Kanadgaon village in association with ICAR Farmer FIRST project of MPKV, Rahuri and Department of Agriculture, Government of Maharashtra. On this occasion, Soybean breeder Dr. M. P. Deshmukh guided the farmers on soybean aspects. Dr. N. S. Kute, Senior Scientist, Pulses Improvement Project guided on cultivation of red gram. Dr. Vijay Shelar, Chief Scientist, Seed Research Project along with Dr. Narayan Musmade, Dr. Dhanshree Sarnobat and Dr. Rashmi Bhoge gave a demonstration on seed treatment. Dr. P. B. Kharde, PI, ICAR FFP introduced the scientists and briefed about the activities of the project. Dr. S. S. Sadaphal, Co-PI of the project expressed thanks.

### July, 2022

### 21. Bhoomipujan of Krishi Vigyan Sankul, Kashti at the auspicious hands of Hon'ble Chief Minister of Maharashtra state



July 30, 2022. A grand programme of bhoomipujan ceremony of the building of Agricultural Science Complex (Krishi Vigyan Sankul) in Kashti, Malegaon, Tal. Nasik was done at the auspicious hands of Hon'ble Shri. Eknath Shinde, Chief Minister, Maharashtra State. On this occasion, Hon'ble former Minister of Agriculture and Ex-Serviceman Welfare of Maharashtra State and pioneer of Agricultural Science Complex Shri. Dadaji Bhuse was present. Hon'ble MLA of Malegaon city Mr. Mufti Mohammad Ismail Khaliq, Director of Research Dr. S. R. Gadakh, Registrar Mr. Pramod Lahale, Comptroller Dr. B. D. Bhakare, Associate Dean, College of Agriculture, Nandurbar. Dr. Satappa Kharbade and Associate Dean, College of Agribusiness Management, Kashti Dr. Vishwanath Shinde were present. The programme was attended



by officers, employees and students of Krishi Vigyan Sankul and a large number of farmers and villagers.

**22. Tree plantation programmeme organized**



July 4, 2022. A tree plantation programmeme was organized at MPKV, Rahuri at various research projects in the central campus. Vice Chancellor Dr. P. G. Patil, Director of Research and Extension Education Dr. S. R. Gadakh, Dean, F/A Dr. P. N. Rasal, Registrar Shri. Pramod Lahale, Comptroller Dr. B. D. Bhakare, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. M. C. Ahire, Tahsildar Shri. Fasiuddin Shaikh, Taluka Agriculture Officer Shri. Mahendra Thoke, Divisional Forest Officer Mr. Y.J. Pacharane, Vice Chancellor's OSD Dr. M. S. Mane, Vice Chancellor's Technical Officer Dr. Pawan Kulwal were present on this occasion. On this occasion Chancellor Dr. P.G. Patil stated the importance of tree plantation. On this occasion, under the Adarsh Gaon Scheme, the catchment area, National Agricultural Research Project-Forestry, under the Central Nursery/Seed Division D Division, Horticulture Nursery Department and All India Coordinated Forestry Project, Digras Hill saplings were planted. All department heads, officers and employees of the university participated in the tree planting programmeme.

**23. Shri. Babasaheb Gore and Shri. Pravin Sorte are the MPKV Idols of the month of July**

July 1, 2022. Shri. Babasaheb Gore, an agricultural entrepreneur from Rajuri village of Rahata taluka, Dist. Ahmednagar and Shri. Pravin Sorte from Pune district are the MPKV Idols for the month of July. Shri. Gore developed broad bed cultivation method of pomegranate crop, single trunk method, technology



of topping and watershoot removal, Sanjivani organic culture for pomegranate, Avena Nutrimix (method of making 1 litre of micronutrient mixture at Rs.10), cotton cake slurry and also developed technology to produce 25 qtl per acre of soybean (Phule Sangam). Along with this, he has disseminated the advanced technology through social media. Shri. Sorte who studied B. Sc. (Agri.) from RCSM College Agriculture, Kolhapur is an agricultural entrepreneur. Shri. Pravin Sorte adopted mechanization and precision farming technology on a total area of 125 acres. H.F. 350 breeds of cows and calves are reared in a sophisticated, mechanical and planned manner. Through their Navnath Milk, 40 to 45 thousand litres of milk is collected daily from five thousand farmer members.

**24. MoU signed between MPKV, Rahuri and IIT, Kanpur**



July 1, 2022. A two day workshop on Guidelines and Policies for Sustainable Agriculture was organized in New Delhi from 30 th June to 1st July, 2022 in association with MPKV, Rahuri and Ganga River Basin Management Studies, IIT Kanpur. The inaugural programmeme of this workshop was chaired by the Director General of the National Clean Ganga Mission



of the Ministry of Jal Shakti of the Central Government Dr. Ashok Sharma. On this occasion, former Deputy Director General (AE), ICAR, New Delhi Dr. K. D. Kokate, Dean, F/A Dr. P. N. Rasal, Head of Agricultural Engineering Department Dr. S. D. Gorantiwar, founder of the E Ganga Center at IIT, Kanpur Dr. Vinod Tare, Head of Inter Faculty Irrigation Management Department Dr. M. S. Mane, Associate Professor of IDE Dr. Sunil Kadam, scientists from the university and IIT, Kanpur were present through online medium. In this workshop, the honorary member of the International Water Management Organization and the representative of the center Dr. Alok Sikka, Former Vice Chancellor of Anand Agricultural University Dr. M. C. Varshney, Dr. A. K. Singh of ICAR, NITI Aayog's Expert Dr. Neelam Patel gave guidance on traditional farming, natural farming, organic farming, modern science and high technology farming. During the event, a MoU was signed between MPKV, Rahuri and IIT, Kanpur to establish a Centre for Excellence at the College of Agriculture, Pune. The centre to be established due to this MoU will benefit farmers, agricultural production companies and entrepreneurs to increase their capacity in marketing as well as to develop sustainable and advanced agricultural infrastructure. All research associates of the CAAST project served as coordinators of the workshop programme and MoU.

### 25. MoU signed between MPKV and Murdoch University, Australia



July 15, 2022. A MoU was signed between MPKV, Rahuri and Murdoch University of Australia in Mumbai. Vice Chancellor Dr. P. G. Patil, Australia's Minister of Culture, Arts and International Education Mr. David Templeman were present. Director of Research and

Extension Education Dr. S. R. Gadakh and Chancellor of International Murdoch University Mr. Kelly Smith signed the MoU. On this occasion, Murdoch University Director Dr. Rajiv Varshney, Dean, F/A Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune Dr. S. D. Masalkar and Vice Chancellor's Technical Officer Dr. Pawan Kulwal were present. Due to this MoU, agricultural education and research will be exchanged between the two universities. In this, students, professors and scientists of both universities can study under each other's university. Vice Chancellor Dr. P.G. Patil said on this occasion that this MoU will provide a great opportunity to acquire innovative skills in the agricultural sector through international cooperation. Dr. Rajeev Varshney said that this agreement will give Murdoch University an opportunity to work with MPKV. Mr. David Templeman also expressed satisfaction with the MoU.

### 26. Approval of National Horticulture Board for Nursery at National Agricultural Research Project, Ganeshkhind, Pune



July 15, 2022. The National Horticulture Board under the Ministry of Agriculture and Farmers Welfare, Government of India has informed that the Nursery of National Agricultural Research Project, Ganeshkhind, Pune under MPKV, Rahuri has been recognized as a two-star accredited nursery. A committee appointed by the National Horticulture Board examined the nursery of the Centre on various issues as per rules. Accordingly, the National Horticulture Board has sent a letter informing that the said nursery has been approved as a two star recognized nursery for producing high quality cuttings of various varieties of fruit crops such as mango, guava, pomegranate, lemon and citrus.



Vice Chancellor Dr. P. G. Patil congratulated Associate Director of Research Dr. V. S. Supe and his team.

### 27. Agricultural Engineering Degree of MPKV, Rahuri gets approval of AICTE

July 14, 2022. The Agricultural Engineering degree of Dr. Annasaheb Shinde College of Agricultural Engineering and Technology of MPKV, Rahuri has been approved by the AICTE. MPKV is the third agricultural university in India to offer AICTE accreditation for agricultural engineering degrees offered. AICTE has started the agricultural engineering degree which was earlier conducted by the universities of Pantnagar and Udaipur. Due to this recognition, agricultural engineering graduates will be able to take advantage of the Department of Science and Technology and other government schemes like other engineering graduates. Also the college will get benefit under Technology Education Quality Development Programme of Government of India. A committee was formed under the guidance of Associate Dean of the college Dr. D. D. Pawar. Chairman of the committee Dr. S. M. Nalawade and all the members and all the staff of the college got their support. Vice Chancellor Dr. P. G. Patil took time out of his busy schedule to pass the necessary certificates and documents. Director of Research and Extension Education Dr. S. R. Gadakh, Associate Dean Dr. P. N. Rasal, Registrar Shri. Pramod Lahale and University Engineer Shri. Milind Dhoke contributed their valuable support for this.

### August, 2022

### 28. Amrit mahotsav of Independence Day of the country was celebrated with enthusiasm

15<sup>th</sup> August, 2022. Amrit mahotsav of Independence Day of the country was celebrated with enthusiasm at MPKV, Rahuri. On this occasion the Vice Chancellor Dr. P.G. Patil hoisted the flag. During the occasion Director of Research and Extension Education Dr. Sharad Gadakh, Dean Dr. Pramod Rasal, Comptroller Dr. Bapusaheb Bhakre, University Engineer Shri. Milind Dhoke, Head ,IWM and OSD Dr. Mahanand Mane, Chief Scientist Seed Dr. Anand Solanke, Deputy Registrar Mr. Vijay Patil, Head of All Departments, Security Officer Shri. Goraksha Shete were present.



Vice Chancellor Dr. Patil addressed the gathering. At this time NCC officer Dr. Sunil Phulsawange conducted the parade. Security Officer Shri Goraksh Shete anchored the programme. A blood donation camp was also organized jointly by the Post Graduate Institute, Dr. Annasaheb Shinde College of Agricultural Engineering and Technology, and Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon. Both students and faculty members participated in the blood donation camp. All the officers, staff and students of the university were present in large numbers for this Independence Day programme.

### 29. Golden Moment of Indigenous Cow Embryo Transplant Technology in MPKV, Rahuri



5<sup>th</sup> August, 2022. Calf of Gir breed has been born for the first time at MPKV, Rahuri using Embryo Transplantation Technology under Indigenous Cow Research and Training Centre. The said project is working at the Department of Animal Husbandry and Dairy Science, College of Agriculture, Pune and this advanced technology application was launched on October 28, 2021 by the Honourable Governor of Maharashtra State. Using the said technology, the

first Gir breed calf was born through a hybrid cow at Cow Research and Development Project, Rahuri. Embryo transplant coordinator Dr. Vishnu Narvade said that the weight of the calf is 22.9 kg and the milk of the bull mother Vishnu is 4165 liters with 5% fat. Government of Maharashtra has started using Embryo Transplantation Technology in University premises and farmers' farms through Indigenous Cow Research and Training Centre.

Chief scientist of the project Dr. Somnath Mane said, about 150 Sahiwal, Gir, Rathi, Tharparkar and Red Sindhi calves are going to be born under this project. The said technology is being implemented through NDDDB, Rahuri and it will be of great help in the conservation of indigenous cattle of high pedigree and increasing their numbers. Vice Chancellor of the University Dr. P.G. Patil said that in view of the decreasing number of pure indigenous cattle in the country, there is no solution without embryo transplantation technology to increase the number of indigenous cows with high production capacity at a fast pace and congratulated all the scientists. Director of Research Dr. Sharad Gadakh, Dean Dr. Pramod Rasal, Associate Dean Dr. Sunil Masalkar, Head AHDS Dr. Dinkar Kamble congratulated and expressed satisfaction. For the project to be successful, the chief scientist Dr. Somnath Mane, Dr. Dheeraj Kankhare, Dr. Vishnu Narvade, Dr. Pramod Sakhre, Dr. Sunil Adangle and scientist from NDDDB Dr. Shivkumar Patil are doing the work.

**30. Shri. Sachin Shelar and Shri. Hemant Kalamkar are Mahatma Phule Krishi Vidyapeeth Idols for the month of August**



August 1, 2022. Progressive farmer Shri Sachin Shelar from Mhaswe, Tal. Dist. Satara and Shri Hemant

Kalamkar residence of Pune and agriculture graduate from College of Kolhapur are MPKV Idols for the month of August. Shri Sachin Shelar is having Hi-tech floriculture cultivating cultivation in which he is taking production of Gerbera, Nisigandh, Dutch Rose, Gladiator etc. He has established Mhswe Agrivision Farmers Producers Company through which he is producing different flower processed product such as gulkand, gulab jal, gulab siraf and gulab pakali as well as boiled groundnut pods, 13 types of papda etc. A brand named Agri Madhur has been developed through the company. Agri graduate entrepreneur Shri. Hemant Kalamkar has delivered quality products to maximum number of farmers through Agzon Group with a strong network of over 400 business partners. Also, through his company Agzon Agritech, supply chain issues are primarily resolved. This avoids numerous middlemen in the supply chain and provides consumers with fresh fruits and vegetables at fair prices.

**31. National Ranking for University Laboratory**



August 2, 2022. Pesticide Residue Laboratory, AINP on Pesticide Residues of Entomology department of PGI is accredited form National Accreditation Board for Testing and Calibration Laboratories (NABL), Quality Council of India, GOI, New Delhi. The laboratory has received ISO/IEC: 17025-2017 certification from this institute for the determination of 47 pesticides. From the last 16 years, samples of fruits, vegetables and pulses crops are collected from selected districts under the centrally sponsored National Level Pesticide Level Analysis Project and analysed for pesticide levels. Because of NABL accreditation, the findings of the laboratory inspection report will be accepted at national as well as global level. Head of





Department of Entomology, Dr. Chidanand Patil, Dr. Bhaidas Deore, Dr. Yogesh Saindane, Vilas Girhe, Dattatray Autade and all senior research associates worked hard for this accreditation. The Chancellor of the University Dr. P.G. Patil, Director of Research and Extension Education Dr. Sharad Gadakh and Dean Dr. Pramod Rasal congratulated.

## September, 2022

### 32. Recognition of Mahatma Phule Krishi Vidyapeeth as an authorized Remote Pilot Training Institute



September 28, 2022. Under the guidance of Hon'ble Vice Chancellor Dr. P.G. Patil a laboratory has been set up to experiment with the use of drones for agriculture in the Center for Climate Smart Agriculture and Water Management. The Directorate of Civil Aviation has released the Drone Rules 2021. According to this regulation, a drone pilot license is required to operate a drone. This license has to be obtained from a drone pilot training institute authorized by the Directorate of Civil Aviation. For that, Mahatma Phule Krishi University has now been approved by the office of Directorate General of Civil Aviation, Government of India, New Delhi to establish an official Drone Pilot Training Institute. Mahatma Phule Krishi Vidyapeeth is the first Krishi Vidyapeeth in India which has authorized Drone Pilot Training Center. The university has tied up with Ground Zero Aerospace, Mumbai for setting up this Drone Pilot Training Institute and they will help in drone pilot training.

For the establishment of this initiative, the then Director of Research and Director of Extension Education Dr. Sharad Gadakh, Dean Dr. Pramod

Rasal, PI of CAAST Project and Head, Department of Agricultural Engineering. Dr. Sunil Gorantiwar, Co-PI of the CAAST project Dr Mukund Shinde gave valuable guidance. Head, Department of Agricultural Machinery and Power, Member of CAAST Project Dr. Sachin Nalavde, officers of Ground Zero Aerospace, Mumbai Shri Rahul Ambegaonkar and Dhriti Shah, Research Associates of CAAST Project Dr. Girish Bhangre and Technical Assistant Engr. Neelkanth More worked hard for this. The duration of the accreditation of the official Drone Pilot Training Institute at MPKV, Rahuri is 10 years and the head office will be located at MPKV, Rahuri. The drone flying field and training site will be located at the Agricultural Research Centre, Chas. The main functions of this remote pilot training institute are to teach remote pilot training course prescribed by the office of Directorate General of Civil Aviation, to evaluate trainee pilots after completion of training, to issue official remote pilot certificate.

### 33. University Scientist on Farmers field: Maza Ek Diwas Mazya Balirajasathi



September 1, 2022. As per the directives from state government an initiative on Maza Ek Diwas Mazya Balirajasathi was organized under MPKV, Rahuri jurisdiction on September 1, 2022. In all 46 centers have organized various programmes and visited the farmers field and guided them various topics pertaining crop technologies, integrated nutrient management technologies, pest and disease management technologies etc. Vice Chancellor Dr. P. G. Patil, Dean (F/A) Dr. P.N. Rasal and Director of Research and Extension Education Dr. S. R. Gadakh, Registrar Shri. Pramod Lahale participated in the programme. In all 175 university scientists reached to 1409 farmers field during this programme.

**34. Vice Chancellor Dr. P.G. Patil participated in Maza Ek Diwas Mazya Balirajasathi activity**



September 1, 2022. Vice Chancellor Dr. P.G. Patil took part in group discussion with farmers organised by REC, Pune under *Maza Ek Diwas Mazya Balirajasathi* activity. Dr. P.G. Patil had dialog with the farmers present on this occasion. During this interaction problems of farmers on various crops were solved under the guidance of subject experts. Officer Incharge of Rice Research Center of Vadgaon Maval Dr. Narendra Kashid explained the importance of integrated fertilizer management and Dr. Shubhas Bhalekar guided the farmers regarding vegetable cultivation. Chief Scientist of Desi Cow Research Project Dr. Somnath Mane guided regarding indigenous cow management practices. Dr. Sunil Jogdand gave information about guava bahar management. Speaking on the occasion, College of Agriculture, Pune Associate Dean Dr. Sunil Masalkar suggested the use of paclobutrazol for regular and early flowering in mango.

**35. Shri. Sanjay Raut and Shri Pandit Shikare are MPKV IDOLS for the month of September**



September 1, 2022. Progressive farmer Shri. Sanjay Raut from Kolhar, Rahata, Dist. Ahmednagar

and Shri Pandit Shikare residence of Pune and agriculture graduate from College of Pune are MPKV IDOLS for the month of September. Shri Sanjay Raut independently set up vermicomposting project, vermiwash and vermiculture unit and is successfully producing and selling. Also, by using 20 to 25 percent of these products in their own fields, he is doing farming by reducing the use of chemical fertilizers up to 70 percent. Shri Pandit Shikare who is an agricultural entrepreneur has set up a greenhouse and is producing large quantities of dutch roses in it. Coldchain has been used successfully to deliver products to consumers after harvest. Shri. Shikare has taken the initiative to earn foreign exchange for the country by exporting dutch roses. He has so far trained thousands of farmers in Maval taluka on greenhouse technology.

**36. Birth of Sahiwal calf from Embryo Transplantation**



September 9, 2022. Sahiwal calf was born through embryo transfer technology at the Desi Cow Research and Training Center in the College of Agriculture, Pune. Embryo transplant technology must be disseminated to farmers. While guiding Vice Chancellor Dr. P.G. Patil said this will result in the generation of indigenous cows of high pedigree through indigenous or crossbred cows in farmers' field. This will help to increase the number of indigenous cows with high milk yield and good immunity. Under this university project Gir, Sahiwal cattles have been born through embryo transplantation technology. At the same time research is going on in Tharparkar, Lal Sindhi and Rathi cows he said. Chief scientist of the project Dr. Somnath Mane said, embryo transplantation was performed in Holstein Friesian cows. Sahiwal calf has been born for the first time through embryo transfer technology at Mahatma Phule Krishi Vidyapeeth. Government of





Maharashtra has started experimenting this embryo transplantation technology in university campuses and farmers' field through Indigenous Cow Research and Training Centre. More than 150 Sahiwal, Gir, Rathi, Tharparkar and Red Sindhi calves will be born under this project. This project is being implemented in collaboration with NDDDB Seamen Station at Rahuri.

### 37. Unveiling of Rajmata Vijayaraje Scindia's oil painting at Kolhapur Agricultural College



September 3, 2022. Vice Chancellor Dr. P.G. Patil presided over the unveiling programme of Rajmata Vijayaraje Scindia's oil painting at Rajmata Vijayaraje Scindia Student Hostel built with social responsibility funds and public participation of Bhaskaracharya Pratishthan at Rajarshi Chhatrapati Shahu Maharaj College of Agricultural Kolhapur. Hon. Union Minister for Civil Aviation and Steel Shri Jyotiraditya Shinde, Hon. Minister of Higher and Technical Education Shri Chandrakant Patil, Dean. Dr. Pramod Rasal, Associate Dean Dr. Rajendra Suryavanshi were present. On this occasion, Minister Shri. Jyotiraditya Shinde and Minister Shri Chandkant Patil guided the students. Chancellor Dr. P.G. Patil in the introduction asked for funds for the fencing. On this occasion Prof. of Chate Education Group. Dr. Bharat Kharate expressed his view. MP Shri Sanjay Mandalik, MP Shri Dhananjay Mahadik, MLA Shri Raturaj Patil, Shri Samarjit Ghadge, Collector Shri. Rahul Rekhawar were present on this occasion. Shri Pandit Kandale anchored the programmeme and Dean Dr. Pramod Rasal proposed vote of thanks.

### October, 2022

### 38. Phule Thrupti and Phule Kaveri varieties of Pigeon pea have been notified for cultivation at national level.



October 28, 2022. Phule Tripti and Phule Kaveri varieties of pigeon pea developed by the Pulses Improvement Project of MPKV have been notified for cultivation at the national level. These varieties were notified in the 89<sup>th</sup> meeting of the Central Varieties release Committee held at New Delhi. Pigeon pea is an important crop of kharif season in Maharashtra and the area under this crop in the state is 12.36 lakh hectares and 12.52 lakh tonnes production where as the productivity is 1013 kg/ha. Both these varieties are the result of ongoing research aimed at developing more productivity and early maturing varieties with resistant to dieback and sterility diseases. These varieties are of medium duration type and are more productive. The variety Phule Tripti (PT10-1) has been released for the states of Maharashtra, Madhya Pradesh, Gujarat and Chhattisgarh in the central region of the country for timely sowing and irrigated/dryland cultivation during Kharif season. This variety gives an average yield of 22.66 qt/ha. The variety showed moderate resistance to wilt and sterility disease and low incidence of pod borer and pod fly. The variety Phule Kaveri (PT11-4) has been released for the southern states of Tamil Nadu, Karnataka, Andhra Pradesh, Telangana and Odisha for timely sowing and irrigated/dryland cultivation during Kharif season. This variety gives an average yield of 15.91 qt/ha.

### 39. Shri. Narendra Patil and Mr. Abhijit Patil are MPKV IDOLS for the month of October

October 1, 2022. Progressive farmer Shri. Narendra Patil from Loni, Post Khardi, Tal.Chopda, Dist.Jalgaon and entrepreneur agril. graduate Mr.



Abhijit Patil residence of Nandarkheda, Tal. Shahada, Dist. Nandurbar are MPKV IDOLS for the month of October. Farmer Idol Mr. Narendra Patil has taken record production of various fruits and vegetable crops and the MPKV varieties of groundnut crop Phule Bharti, Gram- Phule Vikram and Pigeon pea- Phule Rajeshwari have been grown in large areas with the help of farmers. Mr. Narendra Patil has developed the crop rotation system and the farming implements rental business started by him has benefited the farmers of the area. Agricultural entrepreneur Mr. Abhijit Patil holds BSc (Agriculture) from Pune Agricultural College and M.Sc. in Horticulture from Iowa State University, USA. He has cultivated various field and horticulture crops using improved technology in their field. Through the Vanshree Farmers Producer Company, which was started in the year 2016, he has established Vanshree Agricultural Service and Consultancy Center, Vanshree Soil and Water Testing Laboratory, Godown Building, Vanshree Hi-Tech Nursery, Farmer Assistance Center as well as Cotton Ginning, Pressing and Oil Mill. Through various projects such as agricultural tourism center, fish farming, bamboo nursery, organic production project and medicinal plant cultivation, Mr. Abhijit Patil has contributed to the development of farmers in the area

#### 40. MoU between Mahatma Phule Krishi Vidyapeeth and Magnet for Agricultural Technology

October 8, 2022. MoU between Mahatma Phule Krishi Vidyapeeth, Rahuri and Asian Bank funded Maharashtra Agribusiness Network Project MAGNET (MAGNET Project) regarding Center of Exchange for various fruit crops, vegetables and flowers was signed at Agricultural College, Pune. MAGNET Project aims to provide technical guidance and financial assistance



manufacturing companies. This will benefit the farmers financially. Project Director of MAGNET Project Mr. Deepak Shinde said on this occasion that under this MoU, Centers of Excellence for the crops of guava, pomegranate, strawberry, custard dapple, banana, okra, red chilli, green chilli and nisigandh will be started. Vice Chancellor Dr. P.G. Patil and Mr. Deepak Shinde Signed the MoU.

#### 41. MoU with MPKV, Rahuri and ECOCERT, France

October 8, 2022. An MoU was signed between Organic Agriculture Research and Training Centre, MPKV, Rahuri and renowned ECOCERT, France in Organic Agriculture Certification to start a one-year International Post Graduate Diploma Course on Organic Certification. MoU was signed by Vice Chancellor Dr. P.G. Patil on behalf of university and Smt. Agnes Paquin and Managing Director of Mr. Anil Jadhav of ECOCERT. For this one-year post graduate course, degrees holders in Agriculture/ Horticulture/ Agriculture and Marketing/ Agricultural Engineering/ Biotechnology/ Food Technology/ Dairy Technology/ Agro Industry Management as well as science stream apart from Agriculture based degree can take admission for this course. The medium of this course is English and this course will be started from November, 2022 at Central Campus, MPKV, Rahuri. In this one-year residential course, scientists from MPKV, Rahuri and experts from ECOCERT, France will teach the students. At the time of this agreement, the Dean Dr. Pramod Rasal, Head of Department of Agronomy Dr. Anand Solanke, Head of Irrigation and Water Management Dr. Mahanand Mane, Technical Officer. Dr. Ravi Andhale, Chief Scientist of Integrated Farming Systems and Organic Farming Research and Training Center Dr. Ulhas Surve was present.



## 42. Training Programme conducted under the ICAR Farmers FIRST Project



October 4, 2022. Under the International Year of Millets-2023, a one-day training programme on rabi sorghum production technology was organized by ICAR Farmers FIRST project at Sorghum Improvement Project, MPKV, Rahuri. Dr.U. D. Chavan, Head Department of Food Science and Technology presided over the programme. At this time, the PI of the Farmers FIRST project Dr. Pandit Kharde, Senior Sorghum Breeder Dr. Deepak Dudhade, entomologist. Dr. Uttam Kadam, Prof. Sudam Nirmal, Dr. Udayakumar Dalvi, Dr. J.M. Patil, Co-PI Dr. Sachin Sadaphal, Dr. Bhagwan Deshmukhand farmers from Tambhere, Kanadgaon, Chinchvihere and Kanagar villages were present. Dr. Pandit Kharde welcome the dignitaries and gave introductory remarks. Dr. Deepak Dudhade, Dr. Uttam Kadam, Dr. Udayakumar Dalvi guided the farmers. Dr. Bhagwan Deshmukh anchored the programme and Dr. Sachin Sadaphal proposed vote of thanks. More than fifty farmers from Chinchavihere, Kanagar, Tambhere and Kanadgaon were present for the programme.

### November, 2022

## 43. Grand Inauguration of *Indradhanushya*-2022 Youth Festival

November 5, 2022. 18<sup>th</sup> Maharashtra State Inter University Youth Festival *Indradhanushya*-2022 was organized at MPKV, Rahuri. It was conducted from 5<sup>th</sup> to 9<sup>th</sup> November, 2022. This programme was inaugurated by the Minister of Revenue, Animal Husbandry and Dairy Development of Maharashtra State and the Guardian Minister of Ahmednagar and



Solapur district Shri Radhakrishna Vikhe Patil. On this occasion Vice Chancellor Dr. P.G. Patil presided over the programme. At this time, Babasaheb Ambedkar University of Technology Vice Chancellor Dr. Karbhari Kale, film actor Shri Bharat Ganeshpure, Executive Council Member Dr. Pradip Ingole, Mr. Dattatraya Ugle, Shri. Tushar Pawar, Mr. Dattatray Pansare, Coordinator of *Indradhanushya* 2022 and former State Liaison Officer Dr. Pramod Pabrekar, Dean Dr. Pramod Rasal, Director of Research. Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Registrar Shri. Pramod Lahale, Comtroller Dr. Bapusaheb Bhakre, University Engineer Shri. Milind Dhoke and Director of National Service Scheme and Student Welfare Officer Dr. Mahavirsingh Chauhan were present. At this time Mr. Speaking, Radhakrishna Vikhe Patil said that the platform of *Indradhanushya*-2022 festival is very important for the youth. This gives the college students an opportunity to showcase their talents on the platform. It also gives a platform to increase self-confidence. At this time Vice Chancellor Dr. P.G. Patil, film actor Shri Bharat Ganeshpure guided the students. On this occasion, the information booklet *Indradhanushya* -2022' was released by dignitaries. thanked in the form of a poem. Mrs Veena Dighe anchored the programme and Dr. Mahavirsingh Chauhan proposed the vote of thanks. More than 800 students from 21 universities of Maharashtra have participated in this youth festival. In this five-day youth festival, these students presented their art through 28 different events.

## 44. *Indradhanushya*-2022 programme concluded with jubilation

9<sup>th</sup> November, 2022. 18<sup>th</sup> Maharashtra State Inter



University Youth Festival Indradhanushya-2022 was organized at MPKV, Rahuri. It was conducted from 5<sup>th</sup> to 9<sup>th</sup> November, 2022. Vice Chancellor P.G. Patil presided over the closing programme of this festival. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli Vice Chancellor of Dr. Sanjay Sawant was a the chief guest on this occasion. Executive Council member Shri. Dr. Ganesh Shinde, Vice Chancellor of Pravara Institute of Medical Sciences. Dr. V.N. Magre were guest of honour. Coordinator of Indradhanushya-22 and former State Liaison Officer Dr. Pramod Pabrekar, Dean Dr. Pramod Rasal, Director of Research. Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Registrar Shri. Pramod Lahale, Comtroller Dr. Bapusaheb Bhakre, Associate Dean Dr. Shrimant Ranpise, Dr. Dilip Pawar, Dr. Milind Ahire, Dr. Uttam Chavan, Dr. Chintamani Deokar, Dr. Rajendra Suryavanshi, Dr. Atul Atre, members from Raj Bhavan. Shri Govind Katlakute, Dr. Santosh Parchure, Dr. Vani Laturkar, Dr. Vitthalrao Naik and Dr. Chitode and National Service Scheme Director and Student Welfare Officer Dr. Mahavirsingh Chauhan were present. On this occasion the Vice Chancellor Dr. P.G. Patil, Vice Chancellor Dr. Sanjay Sawant, Mr. Shinde and Dr. Magare expressed his thoughts. On this occasion, the prize distribution programme was conducted by dignitaries. In this, Mumbai University won the overall title while Savitribai Phule Pune University won the overall winner trophy. The Golden Boy Award was won by Shri Atharva Omkar Vairatkar of Pune University and the Golden Girl Award was won by Rhea Dhananjay More of Mumbai University. On this occasion, the general title was given in five main categories. In this, Savitribai Phule University, Pune won the general title in the category of music, while Mumbai University won the general title in the

categories of dance, musical arts, theater arts, fine arts. On this occasion, the first, second and third prizes in 29 art forms were distributed by dignitaries.

#### 45. Organized 86th Annual Convention of Indian Institute of Soil Science at Mahatma Phule Krishi Vidyapeeth



15<sup>th</sup> November, 2022. 86<sup>th</sup> Annual Convention of Indian Institute of Soil Science organized by Department of Soil Science and Agricultural Chemistry under MPKV, Rahuri. It was held from 15<sup>th</sup> to 18<sup>th</sup> November, 2022 at MPKV, Rahuri. At the inauguration of this programme, the Secretary DARE, Government of India, New Delhi and the Director General of the Indian Council of Agricultural Research, Dr. Himanshu Pathak was present. On this occasion, Deputy Director General (Natural Resource Management) ICAR, New Delhi Dr. Suresh Kumar Chaudhary was present. Vice Chancellor Dr. P.G. Patil presided over the programme. On this occasion the President of Indian Soil Science Society, New Delhi Dr. D.R. Biswas, Vice Chancellor of Panjabrao Deshmukh Krishi Vidyapeeth, Akola Dr. Sharad Gadakh, Vice Chancellor of Dharwad Krishi Vidyapeeth Dr.P. L. Patil, Secretary of Indian Soil Science Society, New Delhi. Dr. K.K. Bandopadhyay, Dean Dr. Pramod Rasal, Director of Research. Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute and President and Joint Secretary of Rahuri Chapter of Indian Institute of Soil Science Dr. Bapusaheb Bhakere were present. At this time Dr. Himanshu Pathak in his speech said that our health depends on the health of the soil. If the land is in order, your health will be good. Sustainable soil management is essential for our golden future. Dr. Chaudhary , Vice Chancellor Dr. P.G. Patil guided the scientist. On this



occasion Mr. Isha Foundation. Sadhguru guided online. Dr. Bapusaheb Bhakre welcome and gave introductory remarks. Dr. Asim Kumar Sarkar, Dr. Jagdish Prasad, Dr. A.K. Patra, Dr. K.K. Bandopadhyay, Dr. Pradeep Dey, Dr. N. B. Prakash, Dr. Bapusaheb Bhakre, Dr. Ranjit Singh Chaudhary, Dr. Dhaliwal, Dr. P. Balasubramaniam and Dr. Nirmal were honored with various awards and fellowships by dignitaries. On this occasion, Isha Foundation was felicitated with a certificate. On this occasion, various publications and Phule Smart Fertilizer Calculator mobile app were released by the dignitaries. More than 350 soil scientists and 100 students from across the country participated in this convention.

**46. Agriculture Minister Shri Abdul Sattar visits the Indigenous Cow Research and Training Center in Pune**



November 1, 2022: Maharashtra Agriculture Minister Shri Abdul Sattar visited the Indigenous Cow Research and Training Center at Pune Agricultural College. The event was presided over by the Vice Chancellor of University Dr. P.G. Patil. Also present were Associate Dean Dr. Sunil Masalkar and Head of the Indigenous Cow Research Center, Dr. Somnath Mane. During his visit, Minister Abdul Sattar stated that Mahatma Phule Krishi Vidyapeeth is working on the conservation of various rare indigenous cow breeds from Maharashtra and across India. He mentioned that a provision of funds amounting to 89 crore rupees will be made in the March budget for this purpose. He highlighted that countries like Brazil have conducted research on their indigenous cow breeds and developed the highest milk-producing cows, leading to an

economy significantly supported by dairy. In contrast, our indigenous breeds have been neglected, he added.

**47. Dr. Sanjeev Mane and Mr. Babasaheb Bhosale are the idols of MPKV, Rahuri for the month of November**



November 1, 2022: The Mahatma Phule Krishi Vidyapeeth (MPKV) Idols initiative, conceptualized by Vice Chancellor Dr. P.G. Patil, was launched last year. For the month of November, Dr. Sanjeev Mane has been chosen as the Farmer Idol, and Mr. Babasaheb Bhosale has been selected as the Agripreneur Idol of Mahatma Phule Krishi Vidyapeeth. Dr. Sanjeev Mane is a progressive farmer from Ashta, Tal. Walwa, Dist. Sangli, while agriculture diploma holder Mr. Babasaheb Bhosale is an agripreneur from Birewadi, Post Mandave Bu. Tal. Sangamner, Dist. Ahmednagar. Farmer Idol Dr. Sanjeev Mane has utilized the five-point method in sugarcane farming. To enhance soil fertility, he employed ceoss plowing, harrowing, composting with 15 tons of compost, and drenching of beneficial bacteria three times. For sugarcane cultivation, he used 5 foot furrows, single eye-sets, seed treatment, and planting at 1.5 feet intervals in the furrow. Based on soil testing, he applied 280 kg N, 150 kg P, 150 kg K, 30 kg micronutrients, 30 kg sulfur, 50 kg magnesium sulfate, and 50 kg calcium per acre, achieving record-breaking yields per acre. He has disseminated modern sugarcane cultivation techniques through over 2400 lectures across Maharashtra and other states, as well as through WhatsApp groups. Agripreneur Idol Mr. Babasaheb Bhosale completed his agricultural diploma at the Agricultural Technical School, Puntamba. He initially started his venture through an agricultural service center, then established a high-tech nursery, a fertilizer company, a farmer producer company and Green Pearl Industries, earning a reputation as



a successful entrepreneur and contributing to the development of farmers in his area. He has organized self-funded tours for farmers to various parts of the state to observe drip irrigation, advanced machinery, organic farming and soil and water testing plots. His various enterprises employ over 90 permanent staff and 25 to 30 seasonal workers.

#### 48. Launching ceremony of Phule Baliraja Digital Agricultural Advice Application



November 25, 2022: The launching ceremony of the Phule Baliraja Digital Agriculture Advisory Application was held in Pune. This event was jointly organized by the German government (BMZ and GIZ), NABARD, the National Institute of Agricultural Extension Management (MANAGE), Hyderabad, Department of Agriculture, Maharashtra Government, and MPKV, Rahuri. Dr. G.S. Rawat, Chief Executive Manager of NABARD presided over the ceremony. On this occasion Dean Dr. Pramod Rasal, Director of Research Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Director General of MANAGE, Hyderabad Dr. Bhaskar, Co-PI of the Pro-Soil Project Dr. Mukund Shinde, Regional Manager of GIZ Pune Mr. Ranjit Jadhav, and Agricultural Officer of the SMART Project Mrs. Bhagyashree Pawar were present.

#### December 2022

#### 49. Release of Six Varieties, Four Agricultural Implements, and 70 Agricultural Technologies of MPKV, Rahuri.

December 16, 2022. A three-day Joint Agricultural Research and Development committee's 50<sup>th</sup> meeting

was held at Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli. This meeting was organized by the Maharashtra Council of Agricultural Education and Research, Pune and all four state agricultural universities. The meeting was inaugurated by the state's Agriculture Minister and Pro-Chancellor of Agricultural Universities Mr. Abdul Sattar. Dr. Sanjay Sawant, Vice Chancellor of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth chaired the event. Present were Principal Secretary of Agriculture, Mr. Eknath Dawle, Vice Chancellor of MPKV, Rahuri Dr. P. G. Patil, Vice Chancellor of Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani Dr. Indramani, Vice Chancellor of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola Dr. Sharad Gadakh, and Director General of Maharashtra Council of Agricultural Education and Research Mr. Raosaheb Bhagde. Under the guidance of Vice Chancellor Dr. P. G. Patil and the leadership of Director of Research Dr. Sunil Gorantiwar, the university presented new varieties and technological recommendations for approval. The committee approved six new crop varieties, four agricultural implements and 70 crop production technologies. These varieties include Rabi Sorghum-Phule Purva, Rajma-Phule Viraj, Udid-Phule Rajan, Mung-Phule Suvarna, Sugarcane-Phule 15012, and Turmeric-Phule Haridra. The approved agricultural implements are a tractor-driven Phule organic fertilizer applicator, a tractor-driven Phule two-row forward-reverse rotavator, a tractor-driven Phule banana stump cutter, and a Phule juice extraction machine.

#### 50. Grand Start to MPKV Climax-2022 at MPKV, Rahuri.





December 20, 2022, MPKV Climax-2022 was organized at MPKV, Rahuri, through the efforts of the NAHEP-CAAST project and the Alumni Association. The event featured Dr. R. C. Agarwal, Deputy Director General of Education at the Indian Council of Agricultural Research, New Delhi, and National Director of the NAHEP project, as the chief guest. The event was presided over by the Vice Chancellor Dr. P. G. Patil. Present on the dais were Executive Council Member Mr. Sanjeev Bhor, CEO of Sahyadri Farmers Company, Nashik, Er. Vilas Shinde, Founder President of Shramik Industry Group, Sangamner, Mr. Sahebrao Navale Patil, Executive Chairman of Maharashtra Education Board, Mr. Vijay Navale Patil, entrepreneur Mr. Sarkarsahib J.J. Rawal from Dhule, Mrs. Shweta Kakde from Kakde Foods, Pune, Dean Dr. Pramod Rasal, Director of Research Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Registrar Mr. Pramod Lahale, Comtroller Dr. Bapusaheb Bhakare, University Engineer Mr. Milind Dhoke, and event organizing secretary Dr. Mukund Shinde. Dr. R. C. Agarwal, in his guidance speech, emphasized that students graduating with agricultural education should become entrepreneurs instead of job seekers, thus creating employment for others. He highlighted the bright future for agriculture-related industries in India, given its agrarian nature. In his presidential speech, Vice Chancellor Dr. P.G. Patil stressed that becoming a successful entrepreneur requires immense determination, consistent hard work, patience, and several important years of one's life. Agricultural entrepreneurs Mr. Sahebrao Navale, Mrs. Shweta Kakde, Mr. Sarkarsahib Rawal, and Mr. Ankush Patil shared their experiences. During the event, the AgriPlast scholarship funded by Executive Director Mr. Rajiv Kumar Roy and the MPKV Climax-2022 souvenir were released by the dignitaries. The welcome speech was delivered by Dr. Pramod Rasal. Dr. Sunil Gorantiwar provided an overview of the CAAST project and detailed the activities organized as part of MPKV Climax-2022. The vote of thanks was given by Dr. Mukund Shinde, and the event was hosted by Ms. Sayali Biradar. In the morning session, the inauguration of the girls' hostel was done by Dr. Agarwal. Additionally, the dignitaries inaugurated an agricultural exhibition and learned about the products

developed by agricultural graduates.

### 51. National Recognition for Seven New Varieties from MPKV, Rahuri

December 7, 2022. Seven crop varieties from MPKV, Rahuri including sugarcane, wheat, sorghum, pigeon pea, sesame, and black gram, received national recognition at the Indian Council of Agricultural Research's Central Crop Variety Release Subcommittee meeting. These varieties are Sugarcane Phule 11082 (CoM 11082), Wheat Phule Anupam, Rabi Sorghum Phule Yashomati, Pigeon Pea Phule Trupti, and Phule Kaveri, Sesamum Phule Poorna, and Black Gram Phule Vasu.

### 52. Visit of Central Agriculture and Farmers Welfare Secretary Mr. Manoj Ahuja to MPKV



December 28, 2022. Mr. Manoj Ahuja, Secretary of Agriculture and Farmers Welfare of the Government of India, paid a goodwill visit to MPKV, Rahuri.. Present on the occasion were Vice Chancellor Dr. P. G. Patil, Additional Secretary of the Agriculture and Farmers Welfare Department Mr. Abhilaksh Likhi, Commissioner (Horticulture) Dr. Navin Kumar Patle, Director of Research Dr. Sunil Gorantiwar, Dean Dr. Pramod Rasal, Deputy Director of the National Horticulture Board Mr. Hoshiyar Singh, Director of Marketing Department of Agmark Mr. B.K. Joshi, Marketing Officer Mrs. Sonali Bagde, District Superintendent Agriculture Officer Mr. Shivaji Jagtap, Registrar Mr. Pramod Lahale, Comtroller Dr. B. D. Bhakare, Associate Dean Dr. Uttam Chavan, Dr. Shrimant Ranpise, Dr. Goraksha Sasane, and heads of all departments. During his address, Mr. Manoj Ahuja

remarked that the agriculture sector is a challenging field and that MPKV, Rahuri. has excelled in this domain. He highlighted the excellent work being done in the use of drones for pesticide spraying, hyperspectral technology, robotics technology, automated weather stations, and irrigation systems at the university. Mr. Abhilaksh Likhi also shared his thoughts during the event. Vice Chancellor Dr. P. G. Patil provided guidance. Dean Dr. Rasal presented an overview of the university's education, research, and extension activities. Dr. Sunil Gorantiwar gave insights into the ongoing research under the CAAST-CSAWM project and welcomed the dignitaries. Dr. Mahanand Mane conducted the event.

### 53. Conclusion of MPKV Climax-2022 at MPKV, Rahuri



December 22, 2022. The MPKV Climax-2022 event, organized by the efforts of the NAHEP-CAAST project and the Alumni Association, concluded at MPKV, Rahuri., Rahuri. The chief guest for the closing ceremony was Mr. Anil Bokil, founder of the think tank Arthkranti from Pune. The event was presided over by Vice Chancellor Dr. P.G. Patil. On the dais were Dr. Anuradha Agarwal, National Coordinator of ICAR, CAAST-NAHEP, New Delhi, Mr. Subrata Kumar Nanda, General Manager of NABARD, Dean Dr. Pramod Rasal, Director of Research Dr. Sunil Gorantiwar, Director of Extension Education Dr. Tanaji Narute, Registrar Mr. Pramod Lahale, Comtroller Dr. Bapusaheb Bhakare, Associate Deans Dr. Dilip Pawar, Dr. Uttam Chavan, Dr. Shrimant Ranpise, Dr. Chintamani Devkar, Dr. Rajendra Suryavanshi, Dr. Gorakh Sasane, Dr. Jayprakash Gaikwad, and organizing secretary Dr. Mukund Shinde. In his presidential address, Vice

Chancellor Dr. P. G. Patil emphasized that agriculture has highlighted the country's bright future during the lockdown period and that society now recognizes the importance of agriculture and agricultural education. Dr. Anuradha Agarwal, Mr. Nanda, and Mr. Anil Bokil provided guidance to the attendees. The opening speech was delivered by Dean Dr. Pramod Rasal. Dr. Sunil Gorantiwar shared the achievements of the MPKV Climax, noting that over 75 students received employment opportunities during the job fair. Dr. Mukund Shinde reviewed the job fair, education fair, and agricultural exhibition of MPKV Climax. Distinguished agricultural entrepreneurs and MPKV IDOLS were honored by the dignitaries. The event saw large participation from department heads, scientists, professors, farmers, and students from the university.

### 54. Mr. Mahadev Jadhav and Mr. Laxman Dole are the Idols of MPKV, Rahuri. for the month of December



On December 1, 2022. The MPKV, Rahuri., under the initiative conceptualized by Vice Chancellor Dr. P.G. Patil selected Mr. Mahadev Jadhav as the Farmer Idol and Mr. Laxman Dole as the Agricultural Entrepreneur Idol for December. Mr. Mahadev Jadhav, a farmer from Manghar, Taldev, Mahabaleshwar, Satara district, focuses on scientific beekeeping to produce organic honey. His efforts have led to a 30-40 % increase in crop production, and products from his beekeeping, such as honey, royal jelly, pollen, and wax, have boosted his income. The Maharashtra government has recognized Manghar as the "Honey Village." Mr. Laxman Dole, an agricultural entrepreneur from MIDC, Malegaon, Nashik, holds a degree in agriculture from Dhule Agricultural College. He founded the Multimole Microfertilizer Company in 1994 to enhance farmers'



progress by providing services through modern laboratories, prioritizing quality. He produces high-intensity biofertilizers and biopesticides based on probiotic technology, achieving biofertilizer production at 100 billion spores per gram.

### 55. Training Programmeme organized by the Medicinal and Aromatic Plants Research Project



December 29, 2022. MPKV, Rahuri., Rahuri, in collaboration with the Directorate of Arecanut and Spices Development, Calicut (Kerala), the Western Regional Medicinal Plants Facilitation Center, Pune, and the National Board of AYUSH, New Delhi, organized a two-day district-level seminar. Vice Chancellor Dr. P.G. Patil presided over the inauguration, with Dr. Sunil Gorantiwar, Director of Research, as co-chair. The event featured Dr. Ramakant Harlalka, Director of Nishant Aromas Pvt. Ltd., Mumbai, as the chief guest. Also present were Dr. Digambar Mokate, Principal Investigator and Regional Director of the Western Regional Medicinal Plants Facilitation Center, Pune, District Superintendent Agriculture Officer Mr. Shivaji Jagtap, Head of Agricultural Botany Department Dr. Viju Amolik, Principal Scientist Dr. R.T. Gaikwad, Prof. Bharat Pawar, Project In-charge Dr. Vikram Jambhale, and Dr. Sharmila Shinde. During the seminar, Vice Chancellor Dr. P.G. Patil and Dr. Sunil Gorantiwar provided guidance. Dr. Digambar Mokate and Dr. Ramakant Harlalka also addressed the attendees. A publication on medicinal and aromatic plants was released by the dignitaries. Dr. Viju Amolik gave the welcome address, and Dr. Vikram Jambhale conducted the programmeme. Dr. Vilas Aware proposed the vote of thanks. Entrepreneurs Mr. Nanasheeb Bhosale, Mr. Vaibhav Kale, farmers, and women farmers participated in the event.

### 56. University-Level Intercollegiate Avishkar 2022 Competition organized at Agricultural College, Dhule



December 15, 2022. The College of Agriculture, Dhule under MPKV, Rahuri, organized the university-level intercollegiate Avishkar 2022 competition to foster a research-oriented mindset among students and stimulate their innovative ideas and concepts. The competition was successfully conducted under the guidance of Vice Chancellor Dr. P. G. Patil and the presidency of Associate Dean Dr. Chintamani Devkar. The chief guest was Dr. Ashutosh Patil, Director of Lifelong Learning and Extension, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. Present as inspectors were Dr. Atul Atre from Rahuri Krishi Vidyapeeth, and as chief guests were Student Welfare Officer Dr. Mahavirsingh Chauhan, Principal of Agricultural Technology School, Dhule, Dr. Rahul Desale, Vice-President of the Student Council Dr. Ghanshyam Kabre, and Avishkar Coordinator Dr. Sandeep Patil. A total of 280 students from 37 agricultural and affiliated colleges participated in the competition. In his presidential address, Dr. Devkar emphasized that Avishkar promotes a research mindset and serves as an excellent platform for students. Dr. Patil also provided guidance. Over two days, students presented their research and ideas in six categories: Humanities, Languages and Arts; Commerce, Management and Law; Science and Technology; Agriculture and Animal Husbandry; Engineering and Technology; and Medicine and Pharmacy. The best research and ideas were evaluated by expert judges from various departments, and winners were announced.



## January 2023

57. 36<sup>th</sup> Convocation Ceremony organized at MPKV, Rahuri

January 6, 2023. The 36<sup>th</sup> convocation ceremony was conducted with great enthusiasm. The honorable Governor of Maharashtra and Chancellor of Mahatma Phule Krishi Vidyapeeth, Mr. Bhagat Singh Koshyari, along with other dignitaries, including the Minister of Agriculture, Mr. Abdul Sattar, and the Chairman of the Rajiv Gandhi Science and Technology Commission, Padma Vibhushan Dr. Anil Kakodkar, were present online from Raj Bhavan. Former Chairman of the Agriculture Science Selection Committee from New Delhi, Dr. Charudatt Mayee, and other esteemed individuals were also present. Dr. Popatrao Pawar, Chairman of the Ideal Village and Project Committee of Maharashtra, Vice Chancellor Dr. P.G. Patil, the Vice Chancellor of Parbhani Krishi Vidyapeeth, Dr. Indra Mani, the Vice Chancellor of Punjabrao Deshmukh Krishi Vidyapeeth, Dr. Sharad Gadakh, and other members of the university's Executive Council and faculty were also in attendance. The honorable Governor, Mr. Bhagat Singh Koshyari, emphasized the significance of agricultural science experts in bringing about the green revolution in the country, leading to self-sufficiency in food production. He highlighted the importance of agriculture during times of global crisis, stressing the role of other countries in seeking food security from India. Agriculture Minister Mr. Abdul Sattar urged attendees to take on the significant responsibility of empowering future farmers and working alongside them for agricultural development and prosperity. Dr. Anil Kakodkar, in his address,

emphasized that rural development in India could be achieved through agricultural education, which would enable students to contribute to technological advancements and strengthen rural communities. He stressed the importance of creating an environment conducive to technological innovation, which could empower rural areas. Dr. P. G. Patil highlighted the university's efforts in developing indigenous drone technology through the CAAST project, along with other agricultural research initiatives aimed at benefiting farmers.

For significant contributions to the field of agriculture Dr. Charudatt Mayee, former Chairman of the Agriculture Scientist Recruitment Board, New Delhi and Dr. Popatrao Pawar, Chairman of the Adarsha Gaon Project Committee of Maharashtra were honored with the Doctor of Science degrees. Additionally, a total of 6,832 degrees were awarded, including 62 Ph.D.s, 382 postgraduate degrees, and various undergraduate degrees. Notably, Miss Apurva Waman secured the first rank in B.Sc. Agriculture, Miss Siddhamma Halolli secured the first rank in B.Sc. Horticulture, and Miss Shalini Abhale secured the first rank in Agricultural Engineering.

Former Vice Chancellor Dr. Tukaram More, Dr. Ashok Dhawan, former Executive Mr. Chandrashekhar Kadam, former Dean Dr. Pramod Rasal, Dr. Vithalrao Shirke, Pune Agriculture Council's Extension Director, Dr. Milind Dhoke, and others from various fields were present for the ceremony.

## 58. Republic Day Celebrated

January 26, 2023. The 74<sup>th</sup> Republic Day Celebrations at Mahatma Phule Krishi Vidyapeeth were held with great enthusiasm. The flag hoisting ceremony was conducted by Vice Chancellor Dr. P.G. Patil. The programme was attended by Directors Dr. Sunil Gorantiwar, Dr. Uttam Chavan, Dr. Tanaji Narute, Secretary Mr. Pramod Lahane, University Engineer Mr. Milind Dhoke, Comtroller Mr. Vijay Patil, Associate Dean Dr. Dilip Pawar, Dr. Bapusaheb Bhakare, Dr. Shrimant Ranpise, Dr. Gorakh Sasane, Chief Scientist (Seeds) Dr. Anand Solanke, NCC Officer Dr. Sunil Fulsawange, department heads, professors, staff, students, and other dignitaries. Dr.

P.G. Patil provided guidance to the attendees. During the event, calendars for 2023 were released, and the programme commenced with a reading of the preamble to the Indian Constitution.

### 59. Central State Minister of Agriculture Mr. Kailash Chaudhary visited ICRTC, Pune



January 19, 2023. The Union State Minister of Agriculture and Farmer Welfare, Mr. Kailash Chaudhary, visited the Indigenous Cow Research and Training Project at Pune Agriculture College. Dr. V.P. Chahal, Additional Director General (Agricultural Extension) of the Indian Council of Agricultural Research, New Delhi, was also present. Notable figures present included Vice Chancellor Dr. P. G. Patil, Dr. Indra Mani, Dr. Tanaji Narute, Dr. Lakhan Singh, Dr. Sunil Masalkar, Dr. Dheeraj Kankhare and Dr. Somanath Mane. During this meeting, the attendees were briefed on the entire Indigenous Cow Research and Training Project. Dr. Mane highlighted the environmental supplementary components of this project, emphasizing not only milk production but also the suitability of all forthcoming by-products. Mr. Chaudhary advocated for indigenous cattle as a boon for agriculture and human health, applauding the efforts of the project in preserving indigenous cattle breeds.

### 60. Commencement of National Workshop on Integrated Farming Systems

January 18-21, 2023. MPKV, Rahuri, organized a two-year National Workshop on Integrated Farming Systems in collaboration with the Indian Integrated Farming Institute, Modipuram. The workshop was inaugurated by the Vice Chancellor Dr. P. G. Patil. Dr.



S. Bhaskar, Assistant Director General (Agril. Forestry and Climate Change), ICAR, New Delhi, was the chief guest for the event. Dr. A. S. Panwar, Dr. Sunil Gorantivar, Dr. Anand Solanke, Dr. Ravi Shankar, and Dr. Ulhas Surve were also present. Dr. Patil emphasized the use of chemical fertilizers, pesticides, water, land, and air as natural resources in agriculture, considering the impact of climate change. He highlighted the consequences of climate change on agriculture and the potential threat to food security in the future. Dr. Bhaskar provided guidance to the attendees on this occasion. Dr. Panwar presented the progress of various research centers on integrated farming systems in India. Dr. Gorantivar discussed the challenges related to integrated farming systems. Dr. Solanke outlined the roadmap for the Integrated Farming Systems Project. Various publications were released during this event. A total of 160 scientists from 25 states/UTs of India attended this two-year workshop.

### 61. MPKV, Rahuri celebrated International Year of Millets



January 27, 2023. Under the joint auspices of MPKV, Rahuri, and the Department of Agriculture, Government of Maharashtra, various events such



as Rabi Day, Seminars, Agricultural Exhibitions, and Farmer Fairs were organized as part of the International Millet Year-2023 on the university's Sorghum Improvement Project. The programme was chaired by the State Agriculture Commissioner, Mr. Sunil Chavan. Dr. Popatrao Pawar, Chairman of the Ideal Village Initiative, Project Committee, was present as the convener for this event. Also present were Dr. Sunil Gorantivar, Director of Research, Dr. Tanaji Narute, Director of Extension Education, Dr. Uttam Chavan, Dean, District Agriculture Officer Mr. Shivaji Jagtap, Registrar Mr. Pramod Lahane, Head of Botany Department Dr. Viju Amolik, Chief Scientist, Sorghum. Improvement Project Dr. Deepak Dudhade, and Agriculture Luminary Mr. Vishnu Jare. Mr. Sunil Chavan mentioned in his guidance that the United Nations has declared 2023 as the International Millet Year to promote the cultivation of nutritional cereals and their inclusion in diet. Nutritional cereals are crops that are drought-tolerant and heat-resistant. Their nutritional properties are of paramount importance for health. Dr. Popatrao Pawar also provided guidance on this occasion. Dr. Gorantivar mentioned that various programmes have been organized throughout the year. Dr. Amolik. Farmers, students, and dignitaries visited the agricultural exhibition on this occasion. Farmers, students and staff were present in large numbers for this occasion.

**62. International Millet Day celebrated**



January 15, 2023. On the sidelines of the International Year of Millets 2023 the Millet day was celebrated at MPKV, Rahuri under the guidance of Vice Chancellor Dr. P. G. Patil. Dr. Ashok Dalwai, Chief Executive Officer of the National Rainfed Area

Authority in New Delhi was present for this event. On this occasion, Dr. Sunil Gorantivar, Director of Research, Dr. Uttam Chavan, Dean, Mr. Pramod Lahale, Registrar, Dr. Dilip Pawar, Dr. Bapusaheb Bhakare, Dr. Gorakh Sasane, heads of all departments, and students were present. Dr. Ashok Dalwai mentioned in his speech that with the help of government schemes and the development of new technologies by scientists, the cultivation of nutritional crops can be made profitable. Nutritional value in cereals is essential for human health. Dr. Chavan provided guidance on the nutritional value of cereals. Dr. Gorantivar provided information about the programmes organized throughout the year in the university as part of the International Millet Year. Dr. Viju Amolik, Head of the Department of Agricultural Botany provided detailed information on various researches conducted at the university related to different cereals. The programme was coordinated and thanked by Dr. Mukund Shinde. Heads of all departments, scholars, students, and student were present in large numbers for this occasion.

**63. Mr. Dyaneshwar Patil and Dr. Ramnath Jagtap are the Idols of MPKV for the month of January.**



January 2, 2023. Mr. Dyaneshwar Patil and Dr. Ramnath Jagtap have been selected as the agricultural idols of MPKV, Rahuri. for the month of January. Mr. Gyaneshwar Patil is a farmer from Kusumbe, Tal. Chophda, Dist. Jalgaon and Dr. Ramnath Jagtap is an agricultural entrepreneur from Gangapur Road, Nashik. Mr. Dyaneshwar Patil, the farmer idol, has successfully implemented the cultivation of beans achieving bumper yields. By adopting modern techniques and drip irrigation method he has increase crop productivity. Dr. Jagtap, an agricultural entrepreneur, has a degree





in agriculture from Dhule Agriculture College and a postgraduate degree in Plant Pathology. He is producing chemical-free and environmentally friendly agriculture-oriented products.

#### 64. Intense response from farmers at the agricultural exhibition in Sillod



January 1 to 5, 2023. At the agricultural exhibition held in Sillod, Dist. Aurangabad, starting from January 1, 2023, as part of the agricultural festival, the display organized by MPKV, Rahuri. received an overwhelming response from the farmers. Under the guidance and leadership of the Vice Chancellor Dr. P. G. Patil and the Director of Extension Education Dr. T. Narute, along with the Director of Research, Dr. S. D. Gorantiwar, this exhibition showcased various departments. Due to the nationwide discussions on pesticide spraying using drones, a large number of farmers participated in witnessing the practical demonstration of pesticide spraying conducted with the help of drones under the CAAST Project.

#### 65. MoU Signed between MPKV, Rahuri and Dr. Babasaheb Ambedkar Technology University



January 19, 2023. A MoU agreement has been reached between MPKV, Rahuri and Dr. Babasaheb Ambedkar Technology University, Lonere, Raigad, to collaborate. The main objective of this agreement is to encourage collaboration in research, innovation, entrepreneurship, and academic exchange between the two universities. Vice Chancellor Dr. P. G. Patil expressed his belief that through this collaboration, knowledge exchange in technology, entrepreneurship, research projects, and academic quality improvement would be enhanced. The signing ceremony took place at the Agricultural College, Pune, in the presence of Vice Chancellor Dr. P. G. Patil and Dr. Karbhari Vishwanath Kale, the Vice Chancellor of Dr. Babasaheb Ambedkar Technology University.

#### 66. Visit of Dr. A. K. Singh to the University



January 25, 2023. Dr. A.K. Singh, Director, Indian Agricultural Research Institute, New Delhi visited various projects at MPKV, Rahuri. During his visit, Dr. A.K. Singh met with key officials including the Vice Chancellor, Dr. P. G. Patil, Director of Research, Dr. Sunil Gorantiwar, Director of Extension Education, Dr. Tanaji Narute, Dr. A. K. Singh provided guidance on the rapid breeding process and specific changes to be made in various locations to improve fiber quality in cotton production Dr. Gorantiwar gave the welcome speech.

#### 67. Annual workshop on jute and textile crops

February 23 to 24, 2023. MPKV, Rahuri, organized the 34th annual workshop on jute and synthetic textile crops. This workshop was organized in collaboration with the All India Jute and Synthetic Textile Crops Research Project. Dr. R. K. Singh, ADG (Cash Crops),



ICAR, New Delhi attended the inaugural session of this workshop as the chief guest. Dr. Sunil Gorantiwar, Director of Research, chaired the programme. On this occasion, eminent scientists from the Central Research Institute for Jute and Synthetic Textile Crops in Barrackpore, Kolkata, Dr. G. Kar, Director, Dr. Uttam Chavan, Dean, and Dr. Viju Amolik, Head of the Botany Department, and Dr. Rajendra Wagh were present. Dr. Singh stated in his speech that India ranks number one in jute production in the world. Ninety-two percent of the world's total jute production is in India and Bangladesh. One hectare of jute crop absorbs 15 tons of carbon dioxide emissions into the environment. Dr. G. Kar provided information on the current state of synthetic fiber crops. Dr. Gorantiwar mentioned in his welcome speech that fibers obtained from jute and synthetic fiber crops have much higher strength than fibers obtained from jute and synthetic fibers. Various journals, books, and annual reports were released on this occasion. This workshop was attended by more than 50 scholars from 13 research centers in New Delhi, Uttar Pradesh, Bihar, West Bengal, Andhra Pradesh, Odisha, Tamil Nadu, Assam and Maharashtra.

**68. MPKV's AICRP on Jute and Allied Fibres honored with the prestigious Center of Excellence Award**



February 24, 2023. A two-day 34<sup>th</sup> workshop of the All India Coordinated Research Project on Jute and Allied Fibres, Barakpur, Kolkata, was organized at MPKV, Rahuri. During this workshop Dr. R. K. Singh and Dr. Sunil Gorantiwar were honored for their research contributions. MPKV's All India Coordinated Research Project on Jute and Allied Fibres was awarded the Center of Excellence Award. The award was accepted by Dr. D.V. Deshmukh.

**69. Shri. Udaykumar Gaikwad and Shri. Kishor Rajhans selected as MPKV Idols for February**



February 1, 2023. In the month of February, Shri. Udaykumar Gaikwad and Shri. Kishor Rajhans have been selected as MPKV Idols. Shri. Udaykumar Gaikwad, a farmer from Vathar Kiroli, Tal. Koregaon, Dist. Satara, is an agriculturist with a degree in agriculture, while Shri. Kishor Rajhans, a graduate in agriculture from K. F. BioPlants Pvt. Ltd., Pune, is an agricultural entrepreneur. The farmer idol Shri. Udaykumar Gaikwad has been using sugarcane variety 86032 regularly developed by MPKV, Rahuri and has achieved bumper production. As part of crop rotation, he practices the cultivation of jowar and green gram, and for three years, he uses the stubble and manure of these green manure crops in farming. He practices complete mechanization of farming by using micro-irrigation methods for water and fertilizer management, organic manure, liquid manure, and micronutrients. Agricultural entrepreneur Shri. Kishor Rajhans has completed his M.Sc. in Agriculture from the Pune Agricultural College. His company, K.F. BioPlants Pvt. Ltd., is the largest plant biotech company in India, exporting 100 crore seedlings annually through the company to more than 30 countries worldwide.





**70. Shiv Jayanti Celebrated at MPKV, Rahuri.**



February 19, 2023. The 393<sup>rd</sup> anniversary of Chhatrapati Shivaji Maharaj was celebrated with enthusiasm at MPKV, Rahuri. Dr. Uttam Chavan, Dean of MPKV, Rahuri presided over the event. On this occasion, Dr. Bapusaheb Bhakare, Associate Dean, PGI, Dr. Goraksha Sasane, Associate Dean, Agricultural College, Halgaon, Registrar Shri. Pramod Lahale and National Service Scheme Director Dr. Mahavirsingh Chavan were present. On this occasion, Dr. Chavan said in his speech that Chhatrapati Shivaji Maharaj’s arrangement of soldiers’ meals and time management, as well as the positive thoughts given for it, led to success in every battle.

**March 2023**

**71. Guidance to farmers in Dare village by MPKV, Rahuri**



March 5, 2023. Vice Chancellor Dr. P. G. Patil, along with the university scientists provided guidance to farmers in Dare village, Mahabaleshwar, Satara district which is the native village of Hon'ble Chief Minister Shri. Eknath Shinde. They observed the

farming practices and discussed agricultural challenges and the available resources. The village head, Mr. Ranjit Shinde, and the secretary of the Development Society, Mr. Rajendra More, discussed the current agricultural situation and potential future changes. They praised the successful cultivation of strawberries but noted the need for a local processing unit to handle surplus strawberries. They also discussed projects like forest silk cultivation and medicinal plant cultivation. The farmers were advised on how to utilize rainfall efficiently for various crops throughout the year.

**72. Selection of MPKV Idols for the month of March**



March 1, 2023. Mr. Vishnu Jare and Mr. Pradip Khedkar were selected as MPKV Idols for the month of March. Mr. Vishnu Jare is a farmer from Bahirwadi village in Ahmednagar district, while from Mr. Pradip Khedkar is an agricultural entrepreneur from Karandi village in Shirur, Pune district. Mr. Vishnu Jare has popularized onion seeds (Baswant 780, Phule Samarth) and garlic bulbs (Phule Baswant, Phule Nileema) developed by MPKV, Rahuri across Maharashtra and other states. Mr. Pradip Khedkar, with a Bachelor’s degree in Agriculture from Kolhapur Agriculture College, has also completed LLB. He has been selling maize (corn silage) through Harshit Agro Foods and Exports since 2016, reaching farmers in Maharashtra, Gujarat, and other regions. His business is known for its high-quality products, timely delivery and consistent supply.

**73. Workshop of CAAST Project organized**

March 26, 2023. A two-day workshop of CAAST-CSAWM project for sustainable agriculture was organized at MPKV, Rahuri in collaboration with







the Indian Council of Agricultural Research and the National Agricultural Higher Education Project. The workshop focused on the use of Google Earth, IoT, drones, and modern technology in weather forecasting and agriculture. The inauguration was attended online by Vice Chancellor Dr. P. G. Patil, along with the Deputy Director Genral (Education) of ICAR, New Delhi and the National Director of NAHEP Dr. R.C. Agrawal. Dr. N.G. Patil, Director of the ICAR-National Soil Survey and Land Use Planning Bureau, Nagpur also attended the event. Dr. Manjul Kumar Hazarika, Director of the Geo-Informatics Center, Asian Institute of Technology, Bangkok, and Dr. Anuradha Agrawal, National Coordinator of the CAAST Project were present online. Dr. Sunil Gorantiwar, Director of Research and PI, CAAST Project welcomed the dignitaries.

#### 74. 19<sup>th</sup> Extension Education Council Meeting organized

March 15, 2023. The 19<sup>th</sup> Extension Education Council meeting of MPKV, Rahuri. was held at the university. Vice Chancellor Dr. P. G. Patil attended the meeting online. The members of the council present at this meeting included Dr. Tanaji Narute, Director of Extension Education, Dr. Sunil Gorantiwar, Member and Director of Research, Dr. Uttam Chavan, Dean, Dr. Vitthal Shirke, Director of Extension, MCAER, Pune. member farmers Shri. Bhausahab Jadhav, Shri. Samadhan Patil, Shri. Sargerav Patil, Head of Extension Education Department Dr. Goraksha Sasane, Registrar Shri. Pramod Lahale, Comptroller Shri. V. T. Patil were present. While guiding the meeting Vice Chancellor Dr. Patil emphasized that the university and the Department of Agriculture always work for the farmers. The university is contributing significantly

to farmer-centric research. In this digital age, the university has started disseminating technology through digital media. Dr. Tanaji Narute, Director of Expansion Education, presented the report of the previous council meeting and the actions taken thereafter.

#### 75. Guidance on Foreign Higher Education Opportunities organized at MPKV, Rahuri.



March 24, 2023. A programme providing guidance on opportunities for higher education abroad was organized at MPKV, Rahuri in the postgraduate college, concerning the Tennessee State University in America. The programme was conducted under the guidance of Vice Chancellor Dr. P. G. Patil. Dr. Sunil Gorantiwar, the Director of Research of the university presided over the programme. The Executive Director of Tennessee State University, Dr. Jewel Vin, Executive Assistant to the President of Tennessee State University, Dr. Arleen Nicholas-Phillips, President of Alpessa Education Services Mr. Shivshankar Biradar, Vice-President Mr. Vishal Darandale, Global Engagement Coordinator Ms. Rashmi Shetkar, Marketing and Operations Department Director Mr. Sangameshwar Biradar were present. Dr. Gorantiwar mentioned that the Indian Government's perspective is appropriate for taking education from leading universities abroad for postgraduate and doctoral studies. It is essential to establish harmony between MPKV, Rahuri. and foreign universities for education. Dr. Arleen Nicholas-Phillips and Ms. Rashmi Shetkar guided the attending students. For this programme, department Heads, Professors, students were present online.

## 6. Awards

### 1. Dr. Uttam Chavan Honored by the Governor at the World Intellectual Property Day Event



April 26, 2022: Dr. Uttam Chavan, Head of the Department of Food Science and Technology at Mahatma Phule Krishi Vidyapeeth, Rahuri, was honored by Governor Shri Bhagat Singh Koshiyari at an event held at Raj Bhavan, Mumbai. He was presented with a certificate for the patent registered by the agricultural university for Nankatai. The World Intellectual Property Day was recently organized at Raj Bhavan. Progressive farmers and entrepreneurs who have received geographical indications were also present on this occasion. The Nankatai cookies/biscuits produced in the bakery unit operated by the Department of Food Science and Technology at Mahatma Phule Krishi Vidyapeeth have been granted an Indian Intellectual Property Rights certificate, i.e., a patent under the Patent Act 1970, for 20 years. Dr. Uttam Chavan worked diligently for this patent. The Vice Chancellor Dr. P.G. Patil, Director of Research and Extension Education Dr. Sharad Gadakh, and Dean Dr. Pramod Rasal congratulated Dr. Uttam Chavan on the success of the bakery unit.

### 2. Mahatma Phule Krishi Vidyapeeth's CAAST Project Leading in the Country

May 5, 2022: The annual review meeting of the Centre for Advance Agricultural Science & Technology (CAAST) project of Mahatma Phule Krishi Vidyapeeth, Rahuri, focused on modern agricultural science and technology for farming and water management, was successfully concluded in New Delhi under the auspices of the World Bank's financial support, Indian Council of Agricultural Research (ICAR), and the National Agricultural Higher Education Project. This project has been implemented across 14 states in India. The consolidation of the project report was done by its Chief Scientist Dr. Sunil Gorantiwar.

The annual review meeting was attended online by Deputy Director Genral (Education) Dr. R.C. Agrawal, National Coordinator of NAHEP Dr. P. Ramasundaram, National Coordinator for Evaluation and Assessment and Environmental Sustainability Dr. Hema Tripathi, Director of NAHEP Dr. Kumar Rajesh, and representatives from the World Bank. The university's Vice Chancellor Dr. P. G. Patil, guided the CAAST project, which organized 5 international workshops, 46 national training programs, 27 national workshops, 19 webinars, 73 technical lectures and conducted 14 certification courses online amidst the COVID-19 situation. A total of 25,536 teachers/experts and 29,435 students benefited from these initiatives. The lectures and training on updated farming and digital technologies benefited 6,168 farmers under this CAAST project. Significant work has been done in the project, including the use of drone technology and robotics in agriculture. The robotic development for fruit orchards under this project has received international recognition.



### 3. Dr. Sunil Gorantiwar Honored with Vasantrya Naik Agriculture Award



July 1, 2022: Dr. Sunil Gorantiwar, Head of the Department of Agricultural Engineering at Mahatma Phule Krishi Vidyapeeth, was honored with the Vasantrya Naik Agriculture Award during the agriculture day program held at Yashwantrao Chavan Center, Nariman Point, Mumbai. The award ceremony was organized on the occasion of the 109<sup>th</sup> birth anniversary of former Chief Minister Shri. Vasantrya Naik by the Vasantrya Naik Institute of Agriculture Research and Rural Development. The award was presented by Dr. Charudatt Mayee, Chairman of South Asia Biotechnology Centre. The event was attended by the institution's Chairman, Mr. Rajendra Barwale, Managing Director Mr. Avinash Naik, and Treasurer Dr. Bakul Patel.

### 4. Mahatma Phule Agricultural University Scientists Honored at Paani Foundation Program



March 13, 2023: At the intellectually stimulating event organized by the Paani Foundation in Balewadi, Pune, scientists from Mahatma Phule Krishi Vidyapeeth were honored by the esteemed presence of Maharashtra's Deputy Chief Minister, Honorable Mr. Devendra Fadnavis. The event was graced by the foundation's founder and renowned bollywood actors Aamir Khan, Kiran Rao, Director Dr. Avinash Pol and CEO Satyajeeet Bhatakhal. The Deputy Chief Minister Mr. Fadnavis initiated the honors by acknowledging Vice Chancellor Dr. P. G. Patil. Dr. Sunil Gorantiwar, Director of Research, was also recognized during this occasion. Dr. Milind Deshmukh, a soybean scientist, received special recognition for his contributions to soybean research. Following this, the university scientists were felicitated for their achievements. Mahatma Phule Krishi Vidyapeeth has established a collaborative partnership with the Paani Foundation, focusing on providing technological assistance as their knowledge partner.

### 5. Officers and Students of Mahatma Phule Krishi Vidyapeeth Honored with National Service Scheme Awards

April 27, 2022: The award ceremony for the best State-Level National Service Scheme (NSS) Program Officers, Volunteers, Colleges, and Universities for the past five years (2016-17 to 2020-21) was held at the Patkar Auditorium of S.N.D.T. Women's University in Mumbai. The event was graced by the presence of the State Minister for Higher and Technical Education, Mr. Uday Samant, as the chief guest.

From Mahatma Phule Krishi Vidyapeeth, Prof. Sandeep Tambe from the College of Agriculture, Sonai was honored as the Best Program Officer for the years 2018-19 and 2019-20, and Prof. Pravin Gaykar from



the College of Agricultural Biotechnology, Loni, was recognized for 2020-21. The Best Volunteer awards were given to Shri. Vishnu Gore from the College of Agriculture, Kolhapur for 2016-17, Atharva Shinde from the College of Agricultural Engineering, Rahuri for 2017-18, Shri. Shailesh Jogdand from the College of Agriculture, Pune, for 2019-20 and Shri. Aniket Wakale for 2020-21.

Vice-Chancellor Dr. P.G. Patil, Director of Research and Extension Education Dr. Sharad Gadakh, Dean Dr. Pramod Rasal, Associate Dean Dr. Dilip Pawar, Dr. Sunil Masalkar, Dr. Uttam Hole and SWO Dr. Mahavirsingh Chouhan congratulated the award-winning officers and students on their achievements.

## 6. Mahatma Phule Agricultural University's Seed Project Ranked First in the Country



May 12, 2022: The Seed Project at Mahatma Phule Krishi Vidyapeeth, Rahuri, has been honored as the first in the country during the 37<sup>th</sup> Annual Seed Production Review Meeting held at the Indian Institute of Seed Research, Maun, Uttar Pradesh, in New Delhi. Present at this meeting were Dr. D. K. Yadav, Assistant Director of the Seed Division at the Indian Council of Agricultural Research, New Delhi, Dr. Sanjay Kumar, Director of the Indian Institute of Seed Research, Uttar Pradesh, and Mr. Ashwin Kumar, Secretary of the Seed Division, Government of India. Currently, there are a total of 65 high-quality seed

production projects operational across the country. The seed production project at Mahatma Phule Agricultural University has achieved first place. The university has undertaken fundamental and applied seed production of 27 crops, providing seeds on time to the Maharashtra State Seed Corporation, National Seed Corporation, various farmers, seed-producing companies, and farmer groups. Under the guidance of Vice Chancellor Dr. P. G. Patil and Director of Research and Extension Education Dr. Sharad Gadakh, Chief Seed Officer Dr. Anand Solanke, Dr. Chandrakant Salunkhe, and Dr. Kailas Gagare, along with all officers and staff involved in the seed division, have diligently carried out seed production programs. It is due to their collective efforts that Mahatma Phule Agricultural University has received this honor.

## 7. Mr. Subhash Bhosale, Contact Farmer of the Agricultural Meteorological Research Project in Solapur, Honored with Outstanding Farmer Award



April 26, 2022: In recognition of his exemplary work, Mr. Subhash Bhosale, a progressive farmer from Boramani in Solapur district, was presented with the 38<sup>th</sup> Krishi Mahotsav Hyderabad Award for 2022 by Dr. Gurubachan Singh, Director of the Agricultural Science Research Bureau (ASRB), New Delhi. This award is bestowed upon Mr. Bhosale for

his contributions to the Agricultural Meteorological Research Project in Solapur, which operates under the auspices of the Indian Council of Agricultural Research (ICAR) across 25 states in India. The award ceremony was attended by Dr. J. D. Jadhav, Head of the Department of Agricultural Research Centers, Dr. V. T. Jadhav, Agricultural Meteorologist, and Dr. V. M. Londhe, Progressive farmer Mr. Bhosale expressed gratitude for the guidance and support received from Vice Chancellor Dr. P. G. Patil, Director of Research Dr. Sharad Gadakh, Associate Director of Research Dr. Vijay Amritsagar and Project Coordinator Dr. S. K. Bal towards the successful implementation of the project.

## 8. Dr. Milind Ahire Appointed to the Editorial Board of the Indian Research Journal of Extension Education



April 6, 2022: Dr. Milind Ahire, Head Department of Agricultural Extension and Communication, PGI, MPKV, Rahuri and Associate Dean College of Agriculture Halgaon has been appointed to the editorial board of the Indian Research Journal of Extension Education by the Extension Education Society in Agra for the next three years.

## 7. Human Resource

### 7.1 Executive Officers

Sr. No.	Executive Officer	Period	
1	The Chancellor	Hon'ble Shri Bhagat Singh Koshyari	5 <sup>th</sup> September, 2019 to 17 <sup>th</sup> February, 2023
		Hon'ble Shri. Ramesh Bais	18 <sup>th</sup> February, 2023 to till date
2	The Pro Chancellor	Hon'ble Shri. Dadaji Bhuse	30 <sup>th</sup> December, 2019 to 13 <sup>th</sup> August, 2022
		Hon'ble Shri. Abdul Sattar	14 <sup>th</sup> August 2022 to till date
3	The Vice Chancellor	Dr. P. G. Patil	2 <sup>nd</sup> March, 2021 to till date

### 7.2 Executive Council Members list (1<sup>st</sup> April, 2022 to 31<sup>st</sup> March, 2023)

Sr. No.	Category	Hon. Member	Address	Period
1	Ex-officio Chairman	Hon. Vice-Chancellor	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
2	Ex-officio Member	Director of Agriculture ( Input & Quality Control) nominated by Agricultural Commissioner, Govt. of Maharashtra	Commissionrate of Agril., Central Building, Pune	--
3	Ex-officio Member	Regional Joint Director of Animal Husbandry nominated by Commissioner of Animal Husbandry	Veternary Despensary, Near Ashok Stambha, Nashik	--
4	Ex-officio Member	Director of Horticulture	Near Superintedant of Agril officer of Maharashtra State office, Narvir Tanaji Road, Shivajinagar, Pune	--
5	Ex-officio Member	Chief Conservator of Forest (Regional)	Old Mumbai-Agra Highway, Tryambak Naka, Opp. to Adivasi Vikas Bhavan, Nashik	--
6	Member (Nominated by V.C.)	Director of Research	Mahatma Phule Krishi Vidyapeeth, Rahuri	24/9/2021 to 23/9/2023
7	Nominated Member (Nominated by V.C.)	Dean (Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	24/9/2021 to 23/9/2023
8	Ex-officio Member	Regional Dairy Development Officer nominated by Dairy Development Commissioner, Govt. Of Maharashtra	Nasik Division, Campus of Govt. Dairy Scheme, Tryambak Raod, Nashik	--



9	Ex-officio Member	Regional Dy. Director of Fisheries, Nashik nominated by Fisheries Commissioner, Govt. of Maharashtra	Old Govt. Ashwin Barrack No.13, Near Divisional Comminssior Office, Nashik Road, Nashik	--
10	Member (Agriculture Scientist)	Dr. P. G. Ingole	Former Dean, Faculty of Agriculture, PDKV, 9, Anandvila Apartment Satav Square, Jatharpeth, Akola.	30/08/2022 to 29/08/2025
11	Member (Progressive Farmers 05)	Shri. Dattatray Mahadev Ugale	A/P Madilage Budruk, Ta.Bhudargad Dist .Kolhapur	27/05/2021 to 26/05/2024
12		Shri. Tushar Balasaheb Pawar	A/P Belwade Haveli, Tal Karad, Dist Satara	29/09/2022 to 28/09/2025
13		Shri. Sanjeev Babanraw Bhor	Flat No. H-72 Vola Housing Soicity, Shipla Foundation near varje, Pune-411058	07/12/2022 to 06/12/2025
14		Shri. Ganesh Aatmaram Shinde	A/P Pargaon Bhatodi Ra. Ahemadnager	27/09/2022 to 26/09/2025
15		Saw. Shilpa Pratapshing Patil	R.J. Bulding flat No. 102 Labunurm park mager pttta Hadapsaer, Pune	19/04/2023 to 18/04/2026
16	Member (ICAR Nominate) (One)	Dr. Kaushik Banerjee	Director, ICAR-National Research Centre for Grapes, PB No.3, Manjri Farm Post, Solapur Road, Pune-412307	13/12/2022 to 12/12/2025
17	Agro Industrialist (One)	Shri. Dattatray Bhavusaheb Pansare	Shri Dattakrupa Niwas, Line No. 02, Banglow no. 2, Opposite Shilpa guardan, Manik Nagar, Ahmednagar	29/09/2022 to 28/09/2025
18	Member ( Member Maharashtra Legislative Assembly-03)	Hon. MLA, Smt. Monika Rajle	A/P Kasare Pimpalgaon Tal. Pathrtardi Dist Ahmednagar.	w.e.f. 1/11/2022
19		Hon. MLA, Shri. Chimanraw Patil	Sakshi, Gajanane housing Society A/P Parole Dist Jalgaon.	w.e.f 21/11/2022
20		Hon MLA, Shri Prajakt Tanpure	Tanpure gallie A/P Rahuri Tal Rahuri Dist. Ahmednagar	w.e.f 13/02/2023
21	Member ( Member Maharashtra Legislative Council-02)	Hon. MLC, Shri. Narendra Darade,	A/P Bhabulgaon, Tal. Yeola, Dist. Nashik	6/2/2019 to 21/6/2024
22		Hon. MLC, Shri. Kishor Darade,	House no. 3426, old mali galli, Yeola, Tal. Yeola, Dist. Nashik	23/12/2020 to 7/7/2024

23	Member (Chairman of Agril.Committee of ZP)	Vacant Post	--	--
24	(Two)	Vacant Post	--	--
25	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
26	Invitee	Comptroller	Mahatma Phule Krishi Vidyapeeth, Rahuri	--

### 7.3 Academic Council Members (1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023)

Sr. No.	Category	Hon. Member Name / Designation	Address	Remark
1	Ex-officio Chairman	Hon. Vice Chancellor	Mahatma Phule Krishi Vidyapeeth, Rahuri	
2	Ex-officio Member	Director of Extension Education	Mahatma Phule Krishi Vidyapeeth, Rahuri	
3	Ex-officio Member	Director of Instruction	Mahatma Phule Krishi Vidyapeeth, Rahuri	
4	Ex-officio Member	Director of Research	Mahatma Phule Krishi Vidyapeeth, Rahuri	
5	Ex-officio Member	Dean (Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	
6	Ex-officio Member	Dean (Agril. Engg.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	
7	Ex-officio Member	Associate Dean (PGI)	Post Graduate Institute, Mahatma Phule Krishi Vidyapeeth, Rahuri	
8	Ex-officio Member	Associate Dean (CAE)	Dr. Annasaheb Shinde College of Agricultural Engineering & Technology, Mahatma Phule Krishi Vidyapeeth, Rahuri	
9	Ex-officio Member	Associate Dean (LAE)	Lower Agriculture Education, Mahatma Phule Krishi Vidyapeeth, Rahuri	
10	Ex-officio Member	Associate Dean	College of Agriculture, Pune	
11	Ex-officio Member	Associate Dean	Rajarshee Chhatrapati Shahu Maharaj College of Agriculture, Kolhapur	
12	Ex-officio Member	Associate Dean	College of Agriculture, Dhule	
13	Ex-officio Member	Associate Dean	College of Agriculture, Nandurbar	
14	Ex-officio Member	Associate Dean	College of Agriculture, Karad	

15	Ex-officio Member	Associate Dean	College of Agriculture, Muktainagar, Jalgaon	
16	Ex-officio Member	Associate Dean	Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon	
17	Ex-officio Member	Associate Dean	College of Agriculture Business Management, Kashti	
18	Ex-officio Member	Head, Department of Agronomy	Mahatma Phule Krishi Vidyapeeth, Rahuri	
19	Ex-officio Member	Head, Dept. of Animal Science and Dairy Science	Mahatma Phule Krishi Vidyapeeth, Rahuri	
20	Ex-officio Member	Head, Department of Agril. Botany	Mahatma Phule Krishi Vidyapeeth, Rahuri	
21	Ex-officio Member	Head, Department of Soil Sci. & Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
22	Ex-officio Member	Head, Department of Agril. Economics	Mahatma Phule Krishi Vidyapeeth, Rahuri	
23	Ex-officio Member	Head, Department of Agril. Engineering	Mahatma Phule Krishi Vidyapeeth, Rahuri	
24	Ex-officio Member	Head, Department of Agril. Entomology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
25	Ex-officio Member	Head, Department of Agril Extension	Mahatma Phule Krishi Vidyapeeth, Rahuri	
26	Ex-officio Member	Head, Department of Horticulture	Mahatma Phule Krishi Vidyapeeth, Rahuri	
27	Ex-officio Member	Head, Department of Plant Pathology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
28	Ex-officio Member	Head, Dept. of Food Science & Technology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
29	Ex-officio Member	Head, Department of Bio-Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
30	Ex-officio Member	Head, IFD-Irrigation Water Management	Mahatma Phule Krishi Vidyapeeth, Rahuri	
31	Ex-officio Member	Head, Department of Farm Machinery & Power, Mech. Engg., Physics,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
32	Ex-officio Member	Head, Department of Irri.& Drainage Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
33	Ex-officio Member	Head, Dept. of Soil & Water Conservation Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
34	Ex-officio Member	Head, Department of Agril. Process Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
35	Ex-officio Member	Head, Department of Farm Sturcture, Rural Elect., Civil & Elect. Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	



36	Ex-officio Member	Head, Department Agril. Meteorology	College of Agriculture, Pune	
37	Ex-officio Member	Soils Specialist	Agril. Research Station, Solapur	
38	Ex-officio Member	Sugarcane Specialist	Central Sugarcane Research Station, Padegaon	
39	Ex-officio Member	Oilseeds Specialist	Oilseeds Research Station, Jalgaon	
40	Ex-officio Member	Wheat Specialist	Wheat Research Station, Niphad, Dist. Nashik	
41	Ex-officio Member	Student Welfare Officer	Mahatma Phule Krishi Vidyapeeth, Rahuri	
42	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	
<b>Invitee Member (As per decision of AC (68) held on 15/2/96, vide subject No. 2)</b>				
43	Invitee	Associate Director of Research	NARC, Sub-Montane Zone, Shenda Park, Kolhapur	
44	Invitee	Associate Director of Research	NARC, Plain Zone, Ganeshkhind, Pune	
45	Invitee	Associate Director of Research	NARC, Western Ghat Zone, Igatpuri, Dist. Nashik	
46	Invitee	Associate Director of Research	NARC, Scarcity Zone, Raviwarpeth, Solapur	
<b>Invitee Member (As per decision of AC (95) held on 14/02/11 )</b>				
47	Invitee	Principal	College of Horticulture, Pune	
<b>Invitee Member (As per decision of AC (98) held on 14/02/13 )</b>				
48	Invitee	Associate Director of Research	Office of the Directorate of Research, MPKV, Rahuri	
<b>Co-opt Members (As per amended subject no. 14 (13) of Academic council (115) held on 09/04/2021)</b>				
49	Co-opt. Member	Dr. V. V. Sadamate, (Agril. Extension Specialist & Former Adviser, Agriculture Planning Commission, Govt. of India	C-309, Kendriya Vihar, Sector 56, Gurgaon-122 011, Delhi	30/6/2021 to 29/6/2023
50	Co-opt. Member	Dr. H. G. More, (Ex. Dean & Director of Extension Education, MPKV, Rahuri)	Mitra Parivar Colony, Behind the Datta Vsahat, Rahuri Kh., Tal : Rahuri, Dist : Ahmednagar 413 705	30/6/2021 to 29/6/2023
51	Co-opt. Member	Dr. Himanshu Pathak, Director	ICAR- National Institute of Abiotic Stress Management, Malegaon, Baramati, Pune - 413115	30/6/2021 to 29/6/2023
52	Co-opt. Member	Dr. Y. G. Prasad, Director	ICAR- Central Institute for Cotton Research, Post Bag No. 2, Shankar Nagar Post Office, Nagpur 440 010	30/6/2021 to 29/6/2023

Principal of Affiliated Colleges (MAU Act 1983, Section 33 (2) (viii) read with Statute 4 (viii))				
53	Member	The Principal	College of Agril. Business Management, Narayangaon, Dist. Pune	
54	Member	The Principal	College of Agriculture, Akluj, Dist. Solapur	
55	Member	The Principal	College of Agril. Biotechnology, Vidyanagari, Bhigwan Road, Baramati, Dist. Pune	
56	Member	The Principal	College of Agriculture, Ambi, Tal-Wadgaon Maval, Dist. Pune	
57	Member	The Principal	K.K.Wagh College of Agriculture, Nasik, Dist. Nasik	

#### 7.4 Academic Officer

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Dean, Faculty of Agril. and Director of Instruction	Dr. P.N. Rasal (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	31.12.2022
		Dr. U. D. Chavan (Holding add. Charge)		01.01.2023	31.03.2023
2.	Director of Research	Dr. S. R. Gadakh	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	19.09.2022
		Dr. P. G. Patil Hon. Vice Chancellor (Holding add. Charge)		19.09.2022	17.10.2022
		Dr. S. D. Gorantiwar (Holding add. Charge)		18.10.2022	31.03.2023
3.	Director of Extension Education	Dr. S. R. Gadakh (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	19.09.2022
		Dr. P. G. Patil Hon. Vice-Chancellor (Holding add. Charge)		19.09.2022	18.10.2022
		Dr. T. K. Narute (Holding add. Charge)		18.10.2022	31.03.2023
4.	Associate Dean (PGI)	Dr. P. N. Rasal	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	18.10.2022
		Dr. U. D. Chavan (Holding add. Charge)		19.10.2022	31.12.2022
		Dr. B. D. Bhakare (Holding add. Charge)		01.01.2023	31.03.2023
5.	Associate Dean, Agril. Engineering	Dr. D. D.Pawar	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2023	06.10.2022
		Dr. D. D.Pawar (Holding add. Charge)		07.10.2022	31.03.2023



Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
6.	Associate Dean (LAE)	Dr. S. A. Ranpise (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	31.03.2023
7.	Associate Dean, College of Agril. Dhule	Dr. C. D. Deokar (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	31.03.2023
8.	Associate Dean, College of Agril. Pune	Dr. S. D. Masalkar (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	31.03.2023
9.	Associate Dean, College of Agril. Kolhapur	Dr. U. B. Hole (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	11.08.2022
		Dr. R.R. Surywanshi (Holding add.Charge)		12.08.2022	31.03.2023
10.	Associate Dean, College of Nandurbar	Dr. S. B. Kharbade (Holding add.Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	11.08.2022
		Dr. U. B. Hole (Holding add.Charge)		12.08.2022	31.03.2023
11.	Associate Dean, College of Agril. Karad	Dr. R.R. Surywanshi (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	11.08.2022
		Dr. S. B. Kharbade (Holding add. Charge)		12.08.2022	31.03.2023
12.	Associate Dean, College of Agril. Halgaon	Dr. M. C. Ahire (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	09.11.2022
		Dr. G. K. Sasane (Holding add. Charge)		10.11.2022	31.03.2022
13.	Associate Dean, College of Agril. Muktainagar	Dr. D. A. Gadekar (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	07.07.2022
		Dr. K. H. Gaikwad (Holding add. Charge)		08.07.2022	31.03.2022
14.	Associate Dean, College of Agril. Kashti	Dr. V. A. Shinde (Holding add. Charge)	Level – 14 : Rs.144200-218200 Special Pay - 7500	01.04.2022	31.03.2023



## 7.5 Academic Staff- Head of Department (Annual Report 1.04.2022 to 31.03.2023)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Head, Department of Agronomy	Dr. A. V. Solanke (Holding add. Charge)	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
2.	Head, Department of Soil Science & Agril. Chemistry	Dr. B. D. Bhakre	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
3.	Head, Department of Agril. Botany	Dr. V. L. Amolic (Holding add. Charge)	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
4.	Head, Department of Entomology	Dr. C. S. Patil	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
5.	Head, Department of Pathology	Dr. T. K. Narute	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
6.	Head, Department of Horticulture	Dr. S. A. Ranpise	Level – 14 : Rs.144200-218200	01.04.2022	08.05.2022
		Dr. S. A. Ranpise (Holding add. Charge)		09.05.2022	31.03.2022
7.	Head, Department of Animal Science & Dairy Science	Dr. D. K. Kamble (Holding add. Charge)	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
8.	Head, Department of Food Science & Technology	Dr. U. D. Chavan	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
9.	Head, Department of Agril. Engineering	Dr. S. D. Gorantiwar	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
10.	Head, Department of Agril. Meteorology	Dr. J. D. Jadhav (Holding add. Charge)	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
11.	Head, Department of Extension Education	Dr. M. C. Ahire	Level – 14 : Rs.144200-218200	01.04.2022	09.11.2022
		Dr. G. K. Sasane (Holding add. Charge)		10.11.2022	31.03.2023
12.	Head, Department of Agril. Economics	Dr. D. B. Yadav	Level – 14 : Rs.144200-218200	01.04.2022	31.05.2022
		Dr. R. B. Hile (Holding add. Charge)		01.06.2022	31.03.2023



## 7.6 Other Officers (Annual Report 01.04.2022 to 31.03.2023)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Registrar	Shri. P. K. Lahale	S-27 : Rs. 118500-214100	01.04.2022	31.03.2023
2.	Comptroller	Shri. S. B. Balame	S-23 : Rs. 67700-208700	01.04.2022	31.05.2022
		Dr. B. D. Bhakare (Holding add. Charge)		01.06.2022	12.01.2023
		Shri. V. T. Patil (Holding add. Charge)		13.01.2023	31.03.2023
3.	Sports Officer	Shri. D. M. Gaikwad (Holding add. Charge)	Level-10 : Rs. 57700-182400	01.04.2022	31.03.2023
4.	Students Wealfare Officer	Dr. M. R. Chavan (Holding add. Charge)	S-23 : Rs. 67700-208700	01.04.2022	31.03.2023
5.	University Librarian	Shri. A. B. Deshmukh (Holding add. Charge)	Level – 14 : Rs.144200-218200	01.04.2022	31.03.2023
6.	University Engineer	Shri. M. P. Dhokhe	S-25 : Rs. 78800-209200	01.04.2022	31.03.2023
7.	Medical Officer	Dr. (Smt.) V. R. Hile	S-23, Rs. 56100-177500 (MBBS) S-15, Rs. 41800-132300 (Other)	01.04.2022	31.03.2023

## 7.7 University Manpower

Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
<b>Group-A</b>					
1.	Vice-Chancellor	Rs. 2,10,000, Special Pay. Rs. 11250	1	1	0
2.	Registrar	S - 27 : Rs. 118500 – 214100,	1	1	0
3.	Director of Research	Level- 14 : Rs. 144200 - 218200, Special Pay. Rs. 7500	1	0	1
4.	Director of Extension Education	Level- 14 : Rs. 144200-218200, Special Pay. Rs. 7500	1	0	1
5.	Director of Instruction and Dean, Faculty of Agri.	Level- 14 : Rs. 144200-218200, Special Pay. Rs. 7500	1	0	1
6.	Associate Dean (Agri.)	Level- 14 : Rs. 144200-218200, Special Pay. Rs. 7500	9	0	9
7.	Associate Dean (Food Science and Technical)	Level- 14 : Rs. 144200-218200, Special Pay-3,000	2	0	2
8.	Associate Dean (Engineering)	Level- 14 : Rs. 144200-218200, Special Pay. Rs. 7500	1	0	1
9.	Associate Dean (Business Management)	Level- 14 : Rs. 144200-218200, Special Pay. Rs. 7500	1	0	1
10.	Head of Departments	Level- 14 : Rs. 144200-218200	12	4	8
11.	Professor of Agronomy	Level- 14 : Rs. 144200-218200	13	3	10
12.	Professor of Soil Science & Agril. Chemistry	Level- 14 : Rs. 144200-218200	6	1	5
13.	Professor of Bio -Chemistry	Level- 14 : Rs. 144200-218200	1	0	1
14.	Professor of Food Science and Technology	Level- 14 : Rs. 144200-218200	1	0	1
15.	Professor of Inter Faculty Water Management	Level- 14 : Rs. 144200-218200	1	1	0
16.	Professor of Agril. Botany	Level- 14 : Rs. 144200-218200	18	5	13
17.	Professor of Agril. Entomology	Level- 14 : Rs. 144200-218200	6	2	4
18.	Professor of Plant Pathology	Level- 14 : Rs. 144200-218200	9	2	7
19.	Professor of Horticulture	Level- 14 : Rs. 144200-218200	10	3	7
20.	Professor of Animal Science & Dairy Science	Level- 14 : Rs. 144200-218200	6	2	4
21.	Professor of Agril. Economics	Level- 14 : Rs. 144200-218200	6	1	5
22.	Professor of Agril. Extension	Level- 14 : Rs. 144200-218200	5	3	2
23.	Professor of Statistics	Level- 14 : Rs. 144200-218200	2	0	2





Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
24.	Professor of Soil Water Conservation Engineering	Level- 14 : Rs. 144200-218200	2	2	0
25.	Professor of Agril. Process Engineering	Level- 14 : Rs. 144200-218200	2	1	1
26.	Professor of Irrigation and Drainage Engineering	Level- 14 : Rs. 144200-218200	2	1	1
27.	Professor of Farm Power and Machinery	Level- 14 : Rs. 144200-218200	5	0	5
28.	Professor of Physics	Level- 14 : Rs. 144200-218200	1	0	1
29.	Professor of Electric Engineering	Level- 14 : Rs. 144200-218200	1	0	1
30.	Professor of Civil Engineering	Level- 14 : Rs. 144200-218200	1	0	1
31.	Professor of Mathematics	Level- 14 : Rs. 144200-218200	1	0	1
32.	Associate Director of Research	Level- 14 : Rs. 144200-218200	3	0	3
33.	Professor of Food Process Technology	Level- 14 : Rs. 144200-218200	2	0	2
34.	Professor of Food Safety and Quality	Level- 14 : Rs. 144200-218200	2	0	2
35.	Professor of Food Process Engineering	Level- 14 : Rs. 144200-218200	2	0	2
36.	Professor of Business Management	Level- 14 : Rs. 144200-218200	2	0	2
37.	Professor of Food Plant Operations	Level- 14 : Rs. 144200-218200	2	0	2
38.	Professor of Business Management	Level- 14 : Rs. 144200-218200	1	0	1
39.	Professor of Marketing	Level- 14 : Rs. 144200-218200	1	0	1
40.	University Librarian	Level- 14 : Rs. 144200-218200	1	0	1
41.	Asso. Prof. of Agronomy	Level- 13A : Rs. 131400-217100	43	32	11
42.	Asso. Prof. Agri. Botany	Level- 13A : Rs. 131400-217100	33	22	11
43.	Asso. Prof. of Bio-Chemistry	Level- 13A : Rs. 131400-217100	3	3	0
44.	Asso. Prof. of Soil Science & Agril. Chemistry	Level- 13A : Rs. 131400-217100	23	12	11
45.	Asso. Prof. of Agri. Entomology	Level- 13A : Rs. 131400-217100	16	8	8
46.	Asso. Prof. Plant Pathology	Level- 13A : Rs. 131400-217100	19	11	08



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
47.	Asso. Prof. Animal Science & Dairy Science	Level- 13A : Rs. 131400-217100	15	8	7
48.	Asso. Prof. of Agril. Economics	Level- 13A : Rs. 131400-217100	14	8	6
49.	Asso. Prof., Horticulture	Level- 13A : Rs. 131400-217100	31	15	16
50.	Asso. Prof, Agril. Extension	Level- 13A : Rs. 131400-217100	12	10	2
51.	Asso. Prof. Statistics	Level- 13A : Rs. 131400-217100	2	1	1
52.	Asso. Prof., English	Level- 13A : Rs. 131400-217100	1	0	1
53.	Asso. Prof. of Hindi / Marathi	Level- 13A : Rs. 131400-217100	2	0	2
54.	Asso. Prof., Food Science & Technology	Level- 13A : Rs. 131400-217100	1	0	1
55.	Asso. Prof. of Soil & Conservation Engineering	Level- 13A : Rs. 131400-217100	6	5	1
56.	Asso. Prof. Agril. Process Engineering	Level- 13A : Rs. 131400-217100	6	3	3
57.	Asso. Prof. Farm Power Machinery	Level- 13A : Rs. 131400-217100	4	3	1
58.	Asso. Prof. Irrigation and Drainage Engineering	Level- 13A : Rs. 131400-217100	4	2	2
59.	Asso. Prof. Physics	Level- 13A : Rs. 131400-217100	1	0	1
60.	Asso. Prof. Veterinary Science	Level- 13A : Rs. 131400-217100	2	2	0
61.	Asso. Prof. Food Process Technology	Level- 13A : Rs. 131400-217100	4	0	4
62.	Asso. Prof. Food Safety and Quality	Level- 13A : Rs. 131400-217100	4	0	4
63.	Asso. Prof. Food Process Engineering	Level- 13A : Rs. 131400-217100	4	0	4
64.	Asso. Prof. Food Business Management	Level- 13A : Rs. 131400-217100	4	0	4
65.	Asso. Prof. Food Plant Operations	Level- 13A : Rs. 131400-217100	4	0	4
66.	Asso.P prof. of Business Management	Level- 13A : Rs. 131400-217100	2	0	2
67.	Asso. Prof. of Marketing	Level- 13A : Rs. 131400-217100	2	0	2
68.	Asso. Prof. of Banking Finance and Auditing	Level- 13A : Rs. 131400-217100	1	0	1
69.	Asstt. Prof., Agronomy	Level-10 : Rs.57700-182400	68	20	48



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
70.	Asstt. Prof., Soil Science & Agril. Chemistry	Level-10 : Rs.57700-182400	38	30	08
71.	Asstt. Prof. Bio Chemistry	Level-10 : Rs.57700-182400	5	4	1
72.	Asstt. Prof., Food Science and Technology	Level-10 : Rs.57700-182400	3	0	3
73.	Asstt. Prof. of Agril. Botany	Level-10 : Rs.57700-182400	55	37	18
74.	Asstt. Prof. of Entomology	Level-10 : Rs.57700-182400	48	26	22
75.	Asstt. Prof. of Plant Pathology	Level-10 : Rs.57700-182400	48	34	14
76.	Asstt. Prof. of Animal Science & Dairy Science	Level-10 : Rs.57700-182400	29	12	17
77.	Asstt. Prof. of Agril. Economics	Level-10 : Rs.57700-182400	24	12	12
78.	Asstt. Prof. of Horticulture	Level-10 : Rs.57700-182400	52	40	12
79.	Asstt. Prof. of Agril. Extension	Level-10 : Rs.57700-182400	22	13	09
80.	Asstt. Prof. of Veterinary Science	Level-10 : Rs.57700-182400	5	2	3
81.	Asstt. Prof. of Statistics	Level-10 : Rs.57700-182400	12	6	6
82.	Asstt. Prof. of Mathematics	Level-10 :Rs.57700-182400	2	2	0
83.	Asstt. Prof. of Meteorology	Level-10 : Rs.57700-182400	4	1	3
84.	Asstt. Prof. of English	Level-10 : Rs.57700-182400	3	2	1
85.	Asstt. Prof. of Agril. Environment	Level-10 : Rs.57700-182400	2	0	2
86.	Asstt. Prof. of Food Process Technology	Level-10 : Rs.57700-182400	8	0	8
87.	Asstt. Prof. of Food Safety and Quality	Level-10 : Rs.57700-182400	6	0	6
88.	Asstt. Prof. of Food Process Engineering	Level-10 : Rs.57700-182400	6	0	6
89.	Asstt. Prof. of Food Business Management	Level-10 : Rs.57700-182400	4	0	4
90.	Asstt. Prof. of Food Process Technology	Level-10 : Rs.57700-182400	6	0	6
91.	Asstt. Prof. of Food Business Management	Level-10 : Rs.57700-182400	3	0	3
92.	Asstt. Prof. of Marketing	Level-10 : Rs.57700-182400	3	0	3
93.	Asstt. Prof. of Banking, Finance and Auditing	Level-10 : Rs.57700-182400	1	0	1
94.	Asstt. Prof. of Soil & Water Conservation Engineering	Level-10 : Rs.57700-182400	10	6	4





Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
95.	Asstt. Prof. of Agril. Process Engineering	Level-10 : Rs.57700-182400	7	3	4
96.	Asstt. Prof. of Farm Power & Machinery	Level-10 : Rs.57700-182400	7	2	5
97.	Asstt. Prof. of Irrigation and Drainage Engineering	Level-10 : Rs.57700-182400	11	9	2
98.	Asstt. Prof. of Physics	Level-10 : Rs.57700-182400	1	0	1
99.	Asstt. Prof. of Electrical Engineering	Level-10 : Rs.57700-182400	1	1	0
100.	Asstt. Prof. of Civil Engineering	Level-10 : Rs.57700-182400	1	0	1
101.	Asstt. Prof. of Mechanical Engineering	Level-10 : Rs.57700-182400	1	1	0
102.	Students Welfares Officer (College Level)	Level-10 : Rs.57700-182400	1	0	1
103.	Deputy Registrar	S-23 : Rs. 67700-208700	2	2	0
104.	Medical Officer	S-23 : Rs. 56100-177500 (MBBS) S-15 : Rs. 41800-132300 (Other)	2	1	1
105.	Assistant Registrar / Assistant Comptroller	S-16 : Rs. 44400-142400	28	14	14
106.	Deputy Uni. Engineer	S-24 : Rs. 71100-211900	1	0	1
107.	Sports Officer	Level-10 : Rs.57700-182400	1	0	1
108.	Security Officer	S-16 : Rs. 44900-142400	1	0	1
109.	Asstt. Engineer Civil	S-20 : Rs. 56100-177500	1	1	0
110.	Physical Training Instructor	Level-10 : Rs.57700-182400	10	3	7
111.	College Librarian	Level-10 : Rs.57700-182400	9	2	7
112.	University Engineer	S-25 : Rs.78800-209200	1	1	0
113.	Comptroller	S-23 : Rs.67700-208700	1	0	1
114.	Pay and Accounts Officer	S-16 : Rs. 44900-142400	3	3	0
115.	Student Welfare Officer	S-23 : Rs.67700-208700	1	0	1
116.	P.A. to Vice-Chancellor	S-16 : Rs. 44900-142400	1	1	0
<b>Total Cadre -A</b>			<b>967</b>	<b>469</b>	<b>498</b>
<b>Group B</b>					
1	Office Superintendent	S-15 : 41800-132300	38	28	10
2	Superintendent(Computer)	S-15 : 41800-132300	2	1	1
3	Superintendent(Deputation)	S-15 : 41800-132300	3	3	0
4	Asstt. Superintendent.	S-14 : 38600-122800	61	43	18
5	Stenographer (H.G.)	S-15 : 41800-132300	11	5	6



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
6	Stenographer (L.G)	S-14 : 38600-122800	19	2	17
7	Junior/ Sec. Engineer (Civil)	S-13 : 35400-112400 S-15 : 41800-132300	11	5	6
8	Junior/ Sec. Engineer (Electric)	S-13 : 35400-112400 S-15 : 41800-132300	7	0	7
9	Junior/ Sec. Engineer (Meca.)	S-13 : 35400-112400 S-15 : 41800-132300	0	1	-1
10	Sr. Tech. Asstt.	S-15 : 41800-132300 S-14 : 38600-122800	2	0	2
11	Chief Artist	S-14 : 38600-122800	1	0	1
12	Movie Cameraman	S-14 : 38600-122800	1	0	1
13	Sr.Res.Asstt.	S-15 : 41800-132300 S-16 : 44900-142400	151	53	98
14	Veterinary Officer	S-15 : 41800-132300 S-14 : 38600-122800	3	0	3
<b>Total Group B</b>			<b>310</b>	<b>141</b>	<b>169</b>
<b>Group C</b>					
1	Assistant Hostel Superitendent	S-13 : 35400-112400	1	0	1
2	Sr.Clerk	S-8 : 25500-81100	162	125	37
3	Steno Typist	S-8 : 25500-81100	11	4	7
4	Clerk-Cum-Typist	S-6 : 19900-63200	240	151	89
5	Sr. Storekeeper	S-8 : 25500-81100	1	0	1
6	Technical Asstt.(Lib)	S-10 : 29200-92300	1	1	0
7	Chief-Cataloguer	S-10 : 29200-92300	10	4	6
8	Issue Asstt.	S-7 : 21700-69100	9	5	4
9	Draughtsman	S-10 : 29200-92300 S-13 : 35400-112400	7	4	3
10	Tracer	S-7 : 21700-69100 S-8 : 25500-81100	7	2	5
11	Sr. Mechanic	S-8 : 25500-81100	4	0	4
12	Jr. Mechanic	S-6 : 19900-63200	3	2	1
13	Technical Asstt.	S-10 : 29200-92300	4	3	1
14	Mechanical Supervisor	S-10 : 29200-92300	1	1	0
15	Foremen Supervisor	S-10 : 29200-92300	2	1	1
16	Farm Mechanic	S-8 : 25500-81100	4	0	4
17	Fitter-Cum-Mechanic Turner	S-8 : 25500-81100	1	0	1
18	Fitter	S-8 : 25500-81100	6	4	2



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
19	Turner	S-8 : 25500-81100	3	3	0
20	Machinist	S-8 : 25500-81100	1	0	1
21	Foundry man	S-8 : 25500-81100	3	0	3
22	Audio Visual Operator	S-8 : 25500-81100	4	0	4
23	Carpenter	S-8 : 25500-81100 S-7 : 21700-69100	12	6	6
24	Welder	S-8 : 25500-81100	3	2	1
25	Wireman	S-8 : 25500-81100 S-6 : 19900-63200	24	9	15
26	Compounder (Medical)	S-10 : 29200-92300	2	1	1
27	Compounder (Vet.)	S-8 : 25500-81100	4	2	2
28	Nurse	S-13 : 35400-112400	1	1	0
29	Photographer	S-10 : 29200-92300	5	0	5
30	Artist-Cum- Photographer	S-10 : 29200-92300	4	4	0
31	Dark Room Asstt.	S-8 : 25500-81100	2	0	2
32	Asstt. Security Officer	S-10 : 29200-92300	3	1	2
33	Plumber	S-6 : 19900-63200	6	2	4
34	Maistry	S-6 : 19900-63200	12	5	7
35	Surveyer	S-8 : 25500-81100	1	1	0
36	Pump Operator	S-6 : 19900-63200	3	2	1
37	Telephone Operator	S-7 : 21700-69100	2	1	1
38	Compositor	S-7 : 21700-69100	2	1	1
39	Printer	S-7 : 21700-69100	1	0	1
40	Sr.Artist Technical Asstt.	S-10 : 29200-92300	1	1	0
41	Blacksmith	S-8 : 25500-81100 S-7 : 21700-69100	6	1	5
42	Electrician	S-8 : 25500-81100	6	1	5
43	Jeep Driver	S-6 : 19900-63200	73	42	31
44	Tractor Driver	S-7 : 21700-69100	17	6	11
45	Mechanic-Cum Electrician	S-8 : 25500-81100	1	1	0
46	Computer Operator	S-13 : 35400-112400	3	1	2
47	Computer Hardwere Mechanic/ Assistant (Computer)	S-8 : 25500-81100	1	0	1
48	Agril. Asstt.	S-8 : 25500-81100 S-10 : 29200-92300	617	521	96
49	Live-Stock Supervisor	S-8 : 25500-81100	5	3	2





Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant Posts
1	2	3	4	5	6
50	Jr.Vet. Officer	S-15 : 41800-132300 S-10 : 29200-92300	2	1	1
51	Jr.Res.Asstt.	S-13 : 35400-112400	208	56	152
52	Assistant (Computer)	S-8 : 25500-81100	2	0	2
<b>Group C</b>			<b>1514</b>	<b>982</b>	<b>532</b>
<b>Group D</b>					
1	Laboratory Attendent	S-6 : 19900-112400 S-1 : 15000-47600	47	35	12
2	Library Attendent	S-6 : 19900-112400 S-1 : 15000-47600	8	4	4
3	Counter	S-3 : 16600-52400	53	9	44
4	Massion	S-3 : 16600-52400	4	0	4
5	Mali	S-5 : 18000-56900 S-1 : 15000-47600	56	12	44
6	Security Guard	S-1 : 15000-47600	17	5	12
7	Lab. Boy	S-1 : 15000-47600	4	0	4
8	Peon	S-1 : 15000-47600	183	68	115
9	Watchman	S-1 : 15000-47600	161	58	103
10	Labor	S-1 : 15000-47600	1187	543	644
11	Sweeper	S-1 : 15000-47600	24	22	2
<b>Group D</b>			<b>1744</b>	<b>756</b>	<b>988</b>
<b>Total (A+B+C+D)</b>			<b>3568</b>	<b>1879</b>	<b>1689</b>



## 8. Campus Development Activities

### Works in progress at Rahuri region for the year 2022-2023

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Girls hostel for UG students at C.C., MPKV, Rahuri	State Plan	57890175.00
2	Construction of Girls hostel for PG students at C.C., MPKV, Rahuri	State Plan	54045600.00

### Works in progress at Pune region for the year 2022-2023

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Auditorium at College of Agriculture, Pune	State Plan	63154800.00
2	Construction of Girls hostel for UG students for College of Agriculture, Pune	State Plan	62649710.00

### Works in progress at Dhule region for the year 2022-2023

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Administrative buildings, Boys and Girls hostels, Residential quarters for Agriculture Business Management College and Food Technology College at Agril. Technology Centre at Kashti, Tal: Malegaon, Dist. Nashik	State Plan	1020850417.00
2	Construction of Girls hostel for UG students for College of Agriculture, Dhule	State Plan	58441510.00
3	Construction of Auditorium at College of Agriculture, Dhule	State Plan	52067200.00
4	Renovation of drainage line overhead and ground waters tank at A.C., Dhule	M&R	5616996.00

### Works in progress at Kolhapur region for the year 2022-2023

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Building and infrastrucure facilities for Krantisinh Nana Patil Government College of Food Technology at Peth Tal. Walwa, Dist. Sangli.	State Plan	381517281.00
2	Construction of Girls hostel for UG students for College of Agriculture, Kolhapur	State Plan	62649710.00



3	Construction of Auditorium at College of Agriculture, Kolhapur	State Plan	56137600.00
4	Construction of Skill Development and Farmers Training Centre at RSCM College of Agriculture, Kolhapur	ICAR-SAU	12691458.00
5	Providing and fixing reflux valve, sluice valve, air valve & PVC Pipe from existing open well no 4 & 5 in agronomy farm at RSCM College of Agril. Kolhapur	Revolving fund Agronomy	219035.00
6	Providing area lighting for administrative building at RSCM College of Agri., Kolhapur	ICAR-SAU	203528.00
7	Providing open well submersible pump set 12.5 HP and accessories, extension of 110 mm dia PVC pipe form quarter behind boys hostel to existing pipe line from dairy to main building at RSCM College of Agri., Kolhapur	Product testing	133330.00

### Works completed at Rahuri region for the year 2022-2023

Sr.No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of Adminstrative Building, Boys and Girls hostel at Punyashlok Ahilyadevi Holkar college of Agriculture Halgaon Tal- Jamkhed Dist- Ahmednagar	State plan	242789000.00
2	Providing and laying 800 dia HDPE Pipe line, 800 & 450 mm dia PSC Pipe line. 315 mm dia PVC pipe, Balancing Chamber for Lift Irrigation scheme for C.C. Rahuri	RKVY	102797821.00
3	Construction of intake well, intake pipeline, Jackwell with pumphouse and footbridge for lift irrigation scheme for Central Campus at MPKV Rahuri.	RKVY	15206009.00
4	Providing internal electrification to the college building, hostel, library, Amenity building, Gymkhana, Guest house and Redisidential Quarters at Punyashlok Ahilyadevi Holkar college of Agriculture Halgaon Tal- Jamkhed Dist- Ahmednagar	State plan	13461093.00
5	Construction of various buliding for organic farming project at C.C. Rahuri	State plan	11089400.00
6	External Electrification Providing electric Supply, Street lights and other amenities at Punyashlok Ahilyadevi Holkar College of Agriculture Halgaon Tal- Jamkhed Dist- Ahmednagar	State plan	9876041.00
7	Construction of Well, Farmpond and allied works at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tol: Jamkhed, Dist: Ahmednagar	State plan	4762877.00



8	Erection of waterproof main dome stage, Various pendals, Internal Electrification and pendal releated allied work on rental basis for Organisation of 36th Convocation Programme during January 2023 at C.C. Rahuri.	University Receipt	994950.00
9	Erection of waterproof main dome stage, dining pendals, Internal Electrification and pendal releated allied work on rental basis for Organisation of Indradhanushya Programme during November 2022 at C.C. Rahuri.	University Receipt	939500.00
10	Providing brick bat waterproofing treatment to old terrace floor of reading hall ABC and D building block in PGI Hostel at C.C. Rahuri	ICAR-SAU	414892.00
11	Providing electric connection to 7.5 HP pump set at farm pond of cotton improvement project at C.C. Rahuri	Product testing	256350.00
12	STBT for pothole filling and repairs to internal roads at Central Campus MPKV, Rahuri	University receipt	252323.00
13	Providing Cubical panel and allied work for Administrative Building at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal: Jamkhed, Dist: Ahmednagar	State plan	252196.00
14	Repairs and renovation to toilet block near room No. 108GF, 206FF, 303SF and toilet block near room no 112GF, 210FF,310SF of right hand side wing of the E type boys hostel by flooring waterproofing. coloring, pointing, plumbing repairs and allied works under Dr. ASCAE at C.C. Rahuri	ICAR-SAU	251754.00
15	Providing cubical panel no. 1 & 2 and alled work for Girls hostel at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal: Jamkhed, Dist: Ahmednagar	State plan	251706.00
16	providing and skirting and openings sills to reading hall C and D building block in PG boys Hostel at C. C. Rahuri.	ICAR-SAU	250557.00
17	Providing cubical panel no. 1 & 2 and alled work for Boys hostel at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal: Jamkhed, Dist: Ahmednagar	State plan	249018.00
18	Erecting of Struct. Steel shed with roofing & allied works for Parking infront of B Tech Boys hostel (E & F) at C.C. Rahuri	ICAR-SAU	246196.00
19	Providing B.B. Coba waterproofing to terrace over toilet block of Gymichand at C.C. Rahuri.	Student Council	245857.00
20	Providing 500 micron HDPE film for farmpond on Digras Tekdi at C.C. Rahuri	Revolving fund	245183.00
21	Providing Cubical panel and allied work for Generator supply at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal: Jamkhed. Dist: Ahmednagar	State Plan	241857.00

22	Providing and fixing of Solid Core Flush door shutters for Various rooms in A & B Block at C.C. Rahuri	ICAR-SAU	226746.00
23	Repairs and renovation to toilet block near room no. 126 (GF), 223 (F.1.) 317 (S.F.) and toilet block near room no. 136 (G.F.) to left hand side wing of the “F” Type boys hostel by flooring, Waterproofing, coloring, punting. Plumbing repair and allied works under Dr. ASCAE at C.C. Rahuri.	ICAR-SAU	200568.00
24	Repairs and renovation to toilet block near room no. 108 (GF), 206 (F.f.) 303 (S.F.) and toilet block near room no. 115 (G.F.) of right hand side wing of the “F” Type boys hostel by flooring, Waterproofing, coloring, punting. Plumbing repair and allied works under Dr. ASCAE at C.C. Rahuri.	ICAR-SAU	197768.00
25	Repairs and renovation existing flooring heavy weight unit at Gymkhana building at C.C.Rahuri.	Student Council	193718.00
26	Extension of heavy weight unit at Gymkhana Building at C.C. Rahuri	Student Council	191556.00
27	Providing and laying RCC Drainage line, Chambers near PGI Boys Hostel mess and allied plumbing repairs at C.C. Rahuri.	ICAR-SAU	168420.00
28	Repairs and renovation to toilet block near room No. 212 (F.F.) and 310 (S.F.) of right hand side wing of the “P” type Boys hostel by flooring, Waterproofing, coloring, plumbing repair and allied works under Dr. ASCAE at C.C. Rahuri.	ICAR-SAU	138484.00
29	Repairs and renovation to toilet block near room No. 229 (F.F.) 324 (S. F.) of left hand side wing of the “F” type Boys hostel by flooring. Waterproofing, coloring, plumbing repair and allied works under Dr. ASCAE at C.C. Rahuri.	ICAR-SAU	116432.00
30	Providing soil cushioning below HDPE dilm for farm pond on Digras tekadi at C.C Rahuri.	Revolving fund	97544.00

**Works completed at Pune region for the year 2022-2023**

Sr.No	Name of work	Fund head	Estimated cost (Rs.)
1	Desilting and excavation for well at Dairy farm at A.C. Pune	University Receipt	296877.00
2	Electrification works for engineering workshop, B block hostel and old Ladies hostel, dining hall at College of Agriculture, Pune	University Receipt	291367.00

**Works completed at Dhule region for the year 2022-2023**

Sr. No.	Name of work	Fund head	Estimated cost (Rs.)
1	Installation of solar system cooking system for PG boys hostel Mess at Central campus MPKV, Rahuri girls hostel mess at College of Agriculture Pune and boys hostel at College of Agriculture, Dhule	ICAR-SAU	9265478.00
2	Proposed rising main & distribution system in Gut no. 273/1 at Lakhmapur, Tal. Baglan, Dist. Nashik	Revolving fund (Hort.)	2384244.00
3	Providing ON GRID roof top Solar Energy systems for Administrative Building, Boys hostel and Girls Hostel at Agriculture College, Muktainagar, Dist. Jalgaon	State Plan	1651669.00
4	Providing and laying Gi pipeline from Sumpwell to Boys Hostel for domestic purpose at College of Agriculture, Muktainagar, Dist. Jalgaon	State Plan	265989.00
5	Providing and fixing fencing with top Y shaped barbed to West and North side of Boys hostel at College of Agriculture, Muktainagar, Dist. Jalgaon	State Plan	265385.00
6	Providing and fixing fencing with top Y shaped barbed to West and South side of hostel at College of Agriculture, Muktainagar, Dist. Jalgaon	State Plan	259975.00
7	Repairs to Boys hostel room no. 1 to 4 and toilet at Agriculture Technical School, Jalgaon	Maintenance and Repairs	259106.00
8	Providing and applying plaster to various buildings at College of Agriculture, Dhule	University Receipt	254661.00
9	Providing waterproofing to old buildings at College of Agriculture, Dhule	University Receipt	254453.00
10	Replacement of spoiled door shutters of various residential quarters at College of Agriculture, Dhule	University Receipt	253059.00
11	Providing street light fittings for day to day maintainance of Residential quarters, internal roads, main gate area, hostel premises at College of Agriculture, Dhule	University Receipt	251875.00
12	Providing HT line for 25 KVA Tranformer to Gut no. 275 at Krushi Vidyan Sankul, Kashti, Malegaon	State Plan	196408.00



**Works completed at Kolhapur region for the year 2022-2023**

Sr. No	Name of work	Fund head	Estimated cost (Rs.)
1	Construction of farmers training center for Dairy Science at RSCSM College of Agriculture, Kolhapur	Collector office Kolhapur [DPDC]	4383570.00
2	Construction of Nursery office cum potting shed for Horticulture dept. at RSCSM College of Agriculture, Kolhapur	Revolving fund (Hort.)	2999452.00
3	Construction of rat proof godown at NARP Shenda Park, Kolhapur	ICAR-SAU	2657744.00
4	Construction of hall covered threshing yard at NARP Shenda Park, Kolhapur	ICAR-SAU	2064473.00
5	Extension of Customised micro nutrient formulation laboratory at Agril. Research Station at Digraj, Dist. Sangli	DPDC Sangli	1809377.00
6	Renovation of existing seed store and sheller unit at MES dept. at Kasaba Bawada, Dist. Kolhapur	Product Testing MES	1004871.00
7	Construction of toilet block for Gents and Ladies at Regional Sugarcane and Jaggery Research Station at Kolhapur	University Receipt	669685.00
8	providing MS structural Steel work for OH water tank support and Sintex water tank for boys hostel WC block at ATS, Digras, Dist. Sangli	University Receipt	257960.00
9	Providing fly proof mesh for windows and false ceiling in sericulture laboratory in Entomology dept at RSCSM College of Agri., Kolhapur	Product Testing Entomology	168350.00
10	Providing electrical connectivity to the Extension of Customised Micronutrient Fertilizer production laboratory at Agriculture research station, Kasabe Digraj, Dist. Sangli	DPDC Sangli	136320.00
11	Proposed construction of Compound wall for Maize project (farm) at Kasaba Bawada, Dist. Kolhapur	Product Testing MES	120370.00





## 9. The Financial Status of University

During the Financial Year 2022-23 the grants of Rs. 681,03,49 thousands have been received from various Sources (Govt. Maha./GOI/ICAR & other ). The expenditure of Rs. 613,91,33 thousands has been incurred.

During the Financial Year 2022-23 the Abstract of Received grants and expenditure incurred by the University are given below.

Sr. No	Head of Account	Sanctioned / Released Grants (Rs. Thousand)	Expenditure (Rs. Thousand)
1.	<b>State Govt. 01- Crop. Husb. (Non-Plan Scheme ) ( 24150025)</b>		
	1) (04) Pension Payment	2634447	2634447
	2) (31) Asstt. Grants (Non- Salary)	81108	81108
	3) (36) Asstt. Grants (Salary)	2251502	2251502
	<b>Total Rs.</b>	<b>4394428</b>	<b>3797562</b>
2.	<b>State Govt. 03 – Ani. Husb. (Non-Plan Scheme) (24150197)1</b>		
	1) (31) Asstt. Grants (Salary)	34643	34643
	2) (36) Asstt. Grants (Non- Salary)	615	615
	<b>Total Rs.</b>	<b>35258</b>	<b>35258</b>
	<b>(Non-Plan 1+2) Total Rs.</b>	<b>4429686</b>	<b>3832820</b>
3.	<b>State Govt. 01- Crop.Husb. (Plan Scheme) ( 24150072)</b>		
	1) (31) Asstt. Grants (Non – Salary)	105000	105000
	2) (35) Asstt. Grants for Capital Creations.	950000	950000
	3) (36) Asstt. Grants (Salary)	120691	120691
	<b>Total Rs.</b>	<b>1175691</b>	<b>1175691</b>
4.	<b>State 25% Share (ICAR 75:25) 24151086</b>	<b>72892</b>	<b>72892</b>
5.	College of Agriculture, Nandurbar (24158291)	<b>68268</b>	<b>68268</b>
6.	<b>D.C.P.S. State Govt. Share (24151021)</b>	<b>71512</b>	<b>71512</b>
7.	ICAR ( 75:25 ) Schemes 75 % Share / Govt. of India etc. Grant -in-aid Schemes	<b>562100</b>	<b>506648</b>
8.	University Revenue Receipts * O.B. 7,51,68 Thousand	<b>430200</b>	<b>411302</b>
	<b>Grand Total ( 1 to 8)</b>	<b>6810349</b>	<b>6139133</b>
* University Revenue Receipts Financial: - The Revenue Receipts generated by the University during F.Y. 2022-23 is Rs. 25.51 Crore (Previous year C.B. Rs. 7.51 Crore + Revolving Fund Withdrawn Rs. 10.00 Crore + Current year URR Rs. 25.51 Crore = Total URR Rs. 43.02 Crore ). Out of these Rs. 41.13 Crore was allotted to various Schemes for Contingency expenditure for various office/ farm activities/ New Revolving Funds/ Capital assets form University Revenue Receipts.			









## Mahatma Phule Krishi Vidyapeeth

Rahuri - 413 722, Dist. Ahmednagar (Maharashtra)  
[www.mpkv.ac.in](http://www.mpkv.ac.in)