

Annual Report

2019-2020



Mahatma Phule Krishi Vidyapeeth

Rahuri - 413722, Dist. Ahmednagar (Maharashtra)

www.mpkv.ac.in



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Dr. K. P. Viswanatha
Vice Chancellor,
Mahatma Phule Krishi Vidyapeeth,
Rahuri-413 722, Dist.Ahmednagar



FOREWORD


It is an immense pleasure to present an account of the progress of Mahatma Phule Krishi Vidyapeeth, Rahuri in all aspects viz., education, research, extension, administration, civil works, accounts, sports and games and the superb achievements of students in various competitive examinations and the accomplishments of the faculty, scientists and employees. 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 and the Executive Council Members of the University .

During the year 5067 students have successfully completed the Undergraduate, Post-Graduate and Ph.D. degree programmes. In all, 25 students qualified the ICAR-NET examination. Total 29 students succeeded in JRF and four students succeeded in SRF exams in year 2019. A majority of the students have secured scholarship from various agencies. Besides their academic excellence, students achieved distinction in the extra and co-curricular activities. Many students of the University have joined the Government Services through MPSC and a good number of students have joined the Private Sector. A few of them have opted for self-employment.

Out of the research work through various departments, research projects and schemes several new varieties of crops, farm implements, and technology recommendations are in process for release. Seeds and Grafts of various field crops and plantation crops were produced and distributed to the farmers. Students of the university too participated in the research activities of the university.

Mahatma Phule Krishi Vidyapeeth, Rahuri has been the most credible source of information and farm advisory for the farmers of the region. Therefore, lakhs of farmers visit the Central Campus and other Colleges and Research Stations. The faculty and the scientists of the university guide them through the laboratories and demonstrate the technologies generated by the university for their socio-economic benefit. University is implementing innovative extension programmes like Farmers FIRST of RKVY and ICAR, *Kisan Aadhar Sammelan*, Technology week etc. in MPKV jurisdiction for effective transfer of technology. Under the concept of clean and green university, a massive tree plantation programme *Vanmohotsav -2019* and *Krishidin* was organized on 8th July, 2019. More than 50 thousand trees saplings were planted in the jurisdiction of the university in this financial year.

The Annual Report and all the efforts of the entire Mahatma Phule Krishi Vidyapeeth, Rahuri are dedicated to the farmers and the rural community.


(K.P. Viswanatha)





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1. Salient Achievements

Mahatma Phule Krishi Vidyapeeth, Rahuri established on 29th 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, 2019 at Central Campus, MPKV, Rahuri.

Noted author Prof. Devidas Phulari from Nanded was the Chief Guest on this occasion. Hon'ble Vice Chancellor Dr. K. P. Viswanatha presided over the programme.

2. **Bharatratna Dr. Babasaheb Ambedkar Jayanti** was celebrated on April 14, 2019 at Central Campus, MPKV, Rahuri. Prof. Prakash Pawar of Fergusson College, Pune was the Chief Guest for the programme. Hon'ble Vice Chancellor Dr. K. P. Viswanatha presided over the programme.
3. **The International Day of Yoga** was observed on June 21, 2019 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri. At Central Campus, **Yoga Camp** was organized at university ground. More than 2500 staff, students & NSS volunteers participated. Dr. Pravin Rajaram Deshpande, Director, Arogyadham, Nisargopchar Yoga Kendra, Nashik delivered lecture on "Yoga".
4. **Massive Tree Plantation Programme** was conducted on July 01, 2019 as **Krishidin** at all constituent colleges under the ambit of university. At Central Campus, **Vanmahotsav** was organized on July 08, 2019 under Chairmanship Hon'ble Vice Chancellor, Dr. K. P. Viswanatha.
5. **The Blood Donation Camp** was organized with the help of Civil Surgeon, Ahmednagar on August 15, 2019 at Central Campus, Rahuri. Dr. K.P.Viswanatha, Hon'ble Vice Chancellor, MPKV, Rahuri inaugurated the Blood Donation Camp. Total 120 blood bottles donated by the students and staff of MPKV, Rahuri.
6. **Teachers Day** was celebrated on September 05, 2019 at various constituent and affiliated colleges under the jurisdiction of MPKV, Rahuri. The event was celebrated at Central Campus. Dr. Sarjerao Nimse, Former Vice Chancellor,



Lucknow University and Swami Ramanand Teerth Vidyapeeth, Nanded University delivered the Chief Guest address.

7. **The Constitution Day** was celebrated at Central Campus MPKV, Rahuri and all the constituent colleges on November 26, 2019.
8. **Mahatma Jotiba Phule Punyatithi** was celebrated on November 22, 2019 at Central Campus MPKV, Rahuri and all the constituent colleges. At Central Campus, the Chief Guest Dr. Prahlad Lulekar, Head, Department of Marathi, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad delivered a lecture on the life of Mahatma Phule.
9. **The Birth Anniversary of Chattrapati Shivaji Maharaj** was enthusiastically celebrated on February 19, 2020 in the university. On this occasion Prof. Pradip Kadam, History Researcher and Vice Principal, Conquest College, Pimpri Chinchwad delivered a lecture on the life of King Shivaji. Hon'ble Vice Chancellor Dr. K.P. Viswanatha presided over the function.
10. Other activities viz., **Republic Day, Maharashtra Din** and **International Labour Day** and **Independence Day** were celebrated.

• Major Events Organized

1. **Soil Health Cards** prepared by the students of Experiential Learning Module of Soil and Water Clinic in the last semester of B.Sc. (Agri.) degree programme of College of Agriculture, Pune were distributed at the hands of Hon'ble Vice Chancellor Dr. Viswanatha on April 07, 2019.
2. **'Agro-Industry Meet-2019'** was organized at College of Agriculture, Pune on September 29, 2019. About 150 Agri-preneures, Businessmen

and Service sector personnel have participated in the meet.

3. **The Kharif Technology Day** was organized on October 15, 2019 at College of Agriculture, Pune. Dr. Vijay Bhatkar, Hon'ble Chancellor, Nalanda University and Inventor of Param Computer inaugurated the event. Hon'ble Vice Chancellor Dr. K. P. Viswanatha presided over the programme.
4. College of Agriculture, Regional Extension Centre and Krishi Vigyan Kendra, Dhule jointly organized the **Agriculture Technology Day** on October 31, 2019 in coordination with Department of Agriculture and ATMA, Dhule.
5. **34th Convocation** of University was held on December 05, 2019 at Central Campus, MPKV, Rahuri. **His Excellency Shri. Bhagat Singh Koshiyari, Governor of Maharashtra** and Chancellor, MPKV, Rahuri presided the function.
 - **Total 5067 degrees were conferred upon students.**
 - 06 Ph.D. students and 10 M.Sc. students awarded Gold Medal in various Departments.
 - Up till the year 2019, since inception, University has produced **1,15,349** skilled human resources.
6. The **Alumni Meet** of students passed from College of Agriculture, Dhule was organized on December 08, 2019. Hon'ble Vice Chancellor Dr. K. P. Viswanatha inaugurated the meet.
7. The **Inter Agriculture Schools Sports Competition** was organized on January 17-18, 2020 at MPKV, Rahuri.
8. The **Intercollegiate AVISHKAR Competition**



for 2019-20 was organized on January 19, 2020 at MPKV, Rahuri.

9. Alumina Association College of Agriculture, Kolhapur has organized “**Krishi Sangam - 2020**” held on February 24-25, 2020 at RCSM College of Agriculture, Kolhapur Campus.

• Capacity Building

1. Under capacity building programme, **362 faculty members** and **22 students** proceeded for Winter School / Summer School / Refresher Courses, National / International Conference / Seminars / Conclave / Symposia during the year 2019-20.
2. In addition, 20 students of PG and Ph.D. programme of Faculty of Agriculture and Agril. Engineering attended International Training entitled “Drones, AI and Geo-informatics for Climate Smart Agriculture and Water Management” during October 14 to November 13, 2019 at Asian Institute of Technology, Bangkok, Thailand.

• Workshops / Seminar / Trainings Organized

1. An International Symposium on "Strategizing Education and Innovations in Robotics, Drones and IoTs for Climate Smart Agriculture" was organized during July 23-25, 2019 by CAAST-CSAWM Project, MPKV, Rahuri. Dr. Gajendra Singh, Former Deputy Director General (Engg.), ICAR, New Delhi inaugurated the symposium. The function was presided over by Hon'ble Vice Chancellor Dr. K. P. Viswanatha.
2. The Department of Agricultural Meteorology, Centre of Advanced Faculty Training in Agricultural Meteorology (CAFT), College of Agriculture, Pune had organized a National

Training Programme on "Recent Advances in Crop Micrometeorology" during September 17 to October 7, 2019 which was sponsored by ICAR, New Delhi.

3. A Consultative Workshop on "Academia-Industry-Government Linkages for Quality Agricultural Higher Education" was organized during September 23-24, 2019 at MPKV, Rahuri in collaboration with NAARM, Hyderabad.
4. The Department of Horticulture conducted CAFT Training on “National Problems and Prospects in Fruit Crops” from November 14 to December 04, 2019 at Central Campus, MPKV, Rahuri. Total 23 Participants (19 male 4 female) were present.
5. The Department of Food Science & Technology conducted Training on “Processing and Value Addition Technology in Fruits & Vegetables” from November 18-25, 2019 at Central Campus, MPKV, Rahuri. Total 22 trainees (14 Male & 08 Female) participated in the training.
6. National Seminar on “Pluralistic Extension for Enhancing Farmers Income through Reaching the Unreached” was jointly organized by MPKV, Rahuri and Maharashtra Society of Extension Education, Akola during December 06-07, 2019 at Central Campus, MPKV, Rahuri. Dr. Ashok Dalwai, Director, Doubling of Farmers Income, New Delhi was the Chief Guest of the function. Total 214 Faculty members & 98 students participated in the National Seminar.
7. An International Symposium on "Artificial Intelligence based Future Technologies in Agriculture" and 54th Annual Convention of Indian Society of Agricultural Engineers



(ISAE) was organized during January 07-09, 2020 by the CAAST-CSAWM project and Dr. ASCAE&T, MPKV, Rahuri and ISAE, New Delhi at Hyatt Regency, Pune.

- **International Exposure**

- Mr. Wankhade Ankush Purushottam (Genetic and Plant Breeding), PG student of Department of Agril. Botany, Post Graduate Institute, Rahuri conducted his research work at the University of Georgia, USA from August 24 to November 15, 2019 in collaboration with ICRISAT, Hyderabad.
- Hon'ble Vice Chancellor, Dr. K. P. Viswanatha and Dr. A. L. Pharande Dean, Faculty of Agriculture visited Washington State University (WSU), Pullman, USA during March 06-14, 2020 to sign the Memorandum of Understanding (MoU) with Washington State University (WSU) and MPKV, to discuss exchange program of faculties and students of MPKV, and to explore the opportunities for collaborative and sandwich program with

WSU, USA under CAAST-CSAWM.

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

- 29 and 4 students qualified ICAR's PGS-2019 Exam as JRF and SRF, respectively.
- Mr. Mahesh Jadhav and Mr. Siddhartha Kale students of College of Agriculture, Pune secured First Rank at All India Level in ICAR PGS SRF- 2019 Exam in Entomology and Soil Science & Agril. Chemistry discipline respectively.
- Twenty-five students qualified ICAR-NET in the disciplines of agriculture and allied sciences.
- More than hundred and forty students secured success in Maharashtra Public Service Commission Agricultural Exam.



• Memorandum of Understandings

S. N.	Name of the Organization	Year of Signing	Purpose
1	Central Institute for Research on Cattle, Meerut	April 15, 2019	Education, Research and Extension collaboration
2	Nehru Science Centre, Mumbai	April 16, 2019	Setting up an Agricultural Science Museum at the historical building of College of Agriculture, Pune
3	Mukul Madhav Foundation CSR Partner of Finolex Industries Ltd., Pune	April 22, 2019	Award of fellowship for UG, PG and Ph. D. students of all constituent colleges under the ambit of university
4	Bayer Crop Science Limited, Mumbai	Dec.14, 2019	Award fellowship to Ph.D. and PG students of Post Graduate Institute, MPKV, Rahuri

Awards and recognition

A) Faculty

- Dr. A.A. Atre, Professor, Soil and Water Conservation Engineering, Dr. AS College of Agril. Engineering and Technology, Rahuri has been nominated as Member of Sub committee to oversee and study the organization of AVISHKAR-2019 to be held at University of Mumbai by the Advisory Board.
- Dr. Bapusaheb Bhakare, Head, Department of Soil Science and Agril. Chemistry has been elected as Counselor in Indian Society of soil

science by securing highest votes of members in the month of November 2019.

- Dr. Milind Ahire, Head, Department of Agricultural Extension and Communication, MPKV, Rahuri was awarded Best Extension Scientist Award by Maharashtra Society of Extension Education during National Seminar on “Pluralistic Extension for Enhancing Farmers Income through Reaching the Unreached” organized on 6- 7 December, 2019.
- Dr. Pandit Kharde, Associate Professor of Agril. Extension and Communication was awarded the first prize for Best Paper Presentation award in the national seminar on “Pluralistic Extension for Enhancing Farmers Income through Reaching the Unreached” organized on 6- 7 December, 2019.

B) Institute

- MBA (Agri.) Programme at College of Agriculture, Pune achieved ISO: 9001: 2015 Certification for its Quality Management System for the period of three years (September 13, 2019 to September 12, 2022).
- Agricultural Technical School, Solapur achieved ISO: 9001: 2015 Certification for its Quality Management System for the period of three years (2019 to 2022).
- College of Agriculture, Pune Dispensary was honoured with ISO: 9001:2015 Certification for its Good Health Practices for the period of three years (November 01, 2019 to October 31, 2022).

• New Projects/Proposals Sanctioned

- Department of Biotechnology, Government of India, New Delhi sanctioned a “Referral Laboratory” for Testing Quality Parameters of



Bio-pesticides at College of Agriculture, Pune.

- ICAR has sanctioned project proposal for establishment of Educational Museum amounting to Rs. 40.00 lakhs at College of Agriculture, Pune.
- ICAR has sanctioned three project proposals under Experiential Learning Module amounting to Rs. 111.51 lakhs.
- ICAR has sanctioned project proposal of construction of boys hostel and girls hostel at College of Agriculture, Pune and Central Campus, respectively amounting to Rs. 90.00 lakhs each.

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 9 new crop varieties i.e. Chickpea (Phule Vishwaraj) , Safflower (Phule Bhivara and Phule Nira), Cowpea (Phule Sonali) , Mothbean (Phule Sarita), Mungbean (Phule Chetak), Wheat (Phule Satwik) and Grape (Manjari Medika and Manjari Shyama).
2. The University has released three Agri. Farm Implements viz., Tractor operated Phule Shredder, Tractor operated Phule Hydro-Mechanically controlled offset orchard manager and Tractor drawn automatic “Phule Basin Lister”
3. The University has passed 59 recommendations on various aspects for the benefit of the farming community.
4. The University has produced 25811 quintals of seed.

5. A total of 9.38 lakh planting material of fruit crops and ornamental plants was produced by University.
6. A total of 300 litres and 45 MT of biopesticides and 44.6 MT and 7001 litres of biofertilizers were produced by various centers of the University.

1.3 Extension Education

1. About 633 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. A total of 61 monthly district workshops were organized and 1758 were the beneficiaries.
3. A total of 238 method demonstrations, 285 Result demonstrations, 1371 Front line demonstrations and 60 assessment trials were conducted and 6222 farmers were benefitted from these demonstrations.
4. During the year different 1888 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. Diagnostic and surveillance team has visited 336 places to guide the farming community.
6. Different publications viz., Krishi Darshani (13000), Shri Sugi (3000), Folders (15000), booklets, MPKV Happenings were released by the University and made available to the end users.
7. Nearly 1,20,674 VIP's, students, farmers, trainees and officers visited central campus, MPKV, Rahuri and 50000 visited other centers to acquire recent knowledge of agriculture and allied enterprises.
8. The University scientists attended 18260 Help line calls and guided the farmers on major issues.
9. In the annual year 319 water samples, 205 pests samples, 404 diseases samples were tested and 3599 soil samples tested and health cards were issued by the University scientists along with necessary guidance.



2. Education

Mahatma Phule Krishi Vidyapeeth, Rahuri is the first State Agriculture 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 and Masters degree programme in 21 disciplines of Agriculture and 04 disciplines of Agriculture Engineering and Doctoral degree programme in 18 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, seven Colleges of Agriculture at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon for B.Sc. (Hons) Agriculture, one College of Horticulture at Pune for B.Sc. (Hons) Horticulture and one College of Agricultural Engineering at Rahuri for B.Tech. (Agril.

Engg.), 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

University has nine Under Graduate Constituent Agriculture and Allied Colleges with intake capacity of 844 students and 62 affiliated unaided Agriculture and Allied Colleges with intake capacity of 4700 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 Hands-on-Training (HoT) in any two modules of 10 (0+10) credits. Under this university, seven 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. One 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 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 and Report Writing (0+10 credits) and Seminar (0+1 credits). This programme is offered at one 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 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 seven 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 is 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 Degree 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 376 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 55. Out of this, 35 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 subjects (20 credits), Minor subjects (09 credits), Supporting subject (05 credits), Seminar (01 credit), thus making the 35 credits. In addition, six non-credit compulsory courses are allotted. For dissertation, 20 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 188 at Post Graduate Institute, MPKV, Rahuri, 90 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 84 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 75; out of which 30 credits are for course work and 45 credits for research work. The course work is split in to Major subjects (15 credits), Minor subjects (08 credits), Supporting subjects (05 credits), Seminar (02 credits), thus making the 30 credits. In addition, six non-credit compulsory courses are allotted. 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 70 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

University offers Diploma in Agriculture Technology through its nine constituent and seventy-seven affiliated Agricultural Technical Schools with intake capacity of 60 students per year.

2.5 Certificate Course

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 six months 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. 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 ten constituent colleges out of which seven colleges of agriculture sciences located at Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon; one agricultural engineering college at Rahuri; and one college for horticulture at Pune. 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 UG programme. Post-Graduate programme was started from the year 1984. The intake capacity of M.Sc. (Agri), M.Sc. (Horti.) and MBA (Agri.) is 54, 6 and 30 respectively. Ph.D is offered in Agriculture Meteorology with an intake capacity of two students per year.

It offers PG 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. The College of Agriculture was established in the year 1960 and has an annual intake capacity of 128 students for UG 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 unit, Seed Production, Horticultural Nursery, Cattle, Sheep and Goat units, Watershed Field demonstration units, Irrigation Systems Demonstration plot 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. The College of Agriculture 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 UG programme. It offers PG 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. (Horti.) 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 occasion of Birth centenary year (2013) of Hon. Ex-Chief Minister of Maharashtra Shri. Yashwantraoji Chavan. The College of Agriculture, Karad started from the year 2013-14 with the intake capacity of 60 students. This college offers degree programme in B.Sc. (Hons) Agriculture. 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 is the newly 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 started from the academic year 2018-19 with an annual intake capacity of 60 students per year. It offers under graduate B.Sc. (Honors) 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. The college has its own building with well-developed classrooms, laboratories, LAN, computer and internet facilities.

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 UG programme in Agril. Engg. with intake capacity of 64 and PG programme with intake capacity of 12 in three different disciplines which was initiated in 1982. Dr. A. S. College of Agril. Engg. has recently started the Ph.D. in Agril. Engineering by course work and research in the disciplines *viz.*, Agril Process 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.

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 and Doctoral degree Programme in 18 and 17 disciplines of Agriculture Faculty, respectively. The



intake capacity of Master's and Doctoral programme is 188 and 70, respectively.

Each discipline of PG 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 and 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 62 colleges in the faculty of agriculture and allied science. These colleges offer various undergraduate degree programs in the faculty of agriculture.



Sr. No.	Stream	Number of Colleges	Intake Capacity
1	Agriculture	27	2820
2	Horticulture	05	240
3	Agricultural Engineering	08	440
4	Food Technology	07	400
5	Biotechnology	06	360
6	Agril. Business Management	09	440
Total		62	4700

Sports Activities

The XX All India Inter Agril-Universities Sports & Games Meet 2019-20 was held at Venkateswara Veterinary University, Tirupati during March 01-05, 2020. The MPKV team was the Runners up in this competition. Mahatma Phule Krishi Vidyapeeth, Rahuri secured the following prizes

Sr. No.	Event	Name of the Students	Achivement
1	Kho Kho(Women)	Team Event	Gold Medal
2	Volley Ball (Men)	Team Event	Gold Medal
3	Basket Ball (Men)	Team Event	Silver Medal
4	Kabaddi (Men)	Team Event	Bronze Medal
5	Table Tennis (Women)	Team Event	Bronze Medal
Atheletics			
6	400 M. Run Long Jump	Miss. Sangale Shilpa	Gold Medal
7	4 x 100 Relay (Women)	Team Event	Silver Medal
8	100 M. Run	Miss. Naik Shivani	Silver Medal
9	200 M.Run	Miss. Naik Shivani	Bronze Medal
10	400 M. Run	Mr. Yashraj Savant	Bronze Medal

• Staff Achievements in Sports

- The MPKV staff sports team ended runners up in the second All Maharashtra Inter State Agricultural University Staff Sports Competition- 2020 held during January 24-26, 2020 at Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani.



• Inter Collegiate Sport Activities

- Various Inter Collegiate Sport Tournaments-2019-2020 were arranged in University as detailed below

Sr. No.	Event	Date	Organizing College	Winner	Runner	Third
1	Chess (M)	10 th & 11 th July 2019	College of Horticulture, Malegaon	CoA, Baramati	CoA, Jalgaon	ABM, Narayangaon
	Chess (W)			CoA, Pune	CoA, Akulj	Dr. ASCAE&T, MPKV, Rahuri
	Mallkhamb			CoH, Malegaon	CoA, Kolhapur	CoA, Baramati
2	Table Tennis (M)	23 th & 24 th July, 2019	College of Agriculture, Vilad Ghat, Ahmednagar	CoA, Dhule	CoA, Pune	CoA, Talsande
	Table Tennis (W)			CoA, Pune	CoA, Kolhapur	CoA, Dhule
	Badminton (M)			CoA, Pune	KKW CoA Nashik	CoA, Phaltan
	Badminton (W)			CoA, Pune	CoA, Baramati	CoA, Dhule
3	Foot ball (M)	02 nd & 03 rd August, 2019	KKW College of Agriculture, Nashik	KKW CoA, Nashik	D.Y. Patil CoA, Talsande	CoA, Dhule
4	Basket Ball (M)	12 th & 13 th September, 2019	KKW College of ABM, Nashik	CoA, Baramati	CoA, Dhule	CoA, Talsande
	Basket ball (W)			RCSM CoA, Kolhapur	Dr. ASCAE&T, MPKV, Rahuri	CoA, Akulj
5	Kabaddi (M)	30 th & 31 st August, 2019	College of Agriculture, Madadgaon	CoA, Sonai	CoA, Paniv	ABM Narayangaon
	Kabaddi (W)			CoA, Baramati	CoA, Mirajgaon	S.S. CoH, Phaltan
6	Volley ball (M)	11 th & 12 th September, 2019	Students' Welfare Officer, MPKV, Rahuri	CoA, Baramati	Dr. ASCAE&T, MPKV, Rahuri	KKW CoA, Nashik
	Volley ball (W)			CoA, Wadala	CoA, Rajmachi	CoA, Ambi
7	Hockey (M)	25 th to 27 th September 2019	College of Agriculture, Baramati	CoA, Rajmachi	CoA, Baramati	CoA, Dondicha



8	Wrestling 57 Kg	29 th & 30 th September, 2019	College of Horticulture, Phaltan	COA, Mirajgaon	COA, Pune	COA, Jainapur
	Wrestling 61 Kg			COA, Rajmachi	COA, Mirajgaon	COA, Jainapur
	Wrestling 65 Kg			COA, Sonai	COA, Pune	COA, Nesari
	Weight Lifting 55 Kg			COA, Wadala	RCSM CoA, Kolhapur	RCSM COA,Kolhapur
	Weight Lifting 61 Kg			CoA,Jainapur	RCSM CoA, Kolhapur	CoA, Akluj
	Weight Lifting 67 Kg.			RCSM CoA, Kolhapur	CoA, Akluj	CoA, Talsande
	Weight Lifting 73 Kg			CoA, Kolhapur	RCSM CoA, Kolhapur	-
	Weight Lifting 81 Kg			CoA, Akluj	CoA Paniv	RCSM CoA, Kolhapur
	Weight Lifting 89 Kg			CoA, Talsande	CoA, Paniv	CoA, Akluj
	Weight Lifting 96 Kg			CoA, Talsande	CoA, Paniv	CoA, Paniv
	Weight Lifting 102 Kg.			RCSM CoA, Kolhapur	RCSM CoA, Kolhapur	CoA, Wadala
	Weight Lifting 109 Kg.			CoA, Wadala	CoA, Pune	CoA,Phaltan
	Best Physique			CoA, Rajmachi	CoA, Baramati	CoA Ambi
	Best Physique 75 Kg.			CoA, Jainapur	CoA, Baramati	RCSM CoA, Kolhapur
	Best Physique 65-75 Kg.			CoA, Jainapur	CoA, Rajmachi	RCSM CoA, Kolhapur
9	Kho Kho (M)	02 nd & 03 rd October, 2019	College of Horticulture, Paniv	CoA, Paniv	CoA,Wadala	CoA,Baramati
	Kho Kho (W)			CoA, Baramati	CoA,Pune	CoA,Talsande
10	800 Mtr. Run Men	07 th & 08 th December, 2019	College of Agriculture, Baramati	COA, Loni	COA, Pune	ABM Narayangaon
	800 Mtr. Run Women			CoA, Pune	CoA, Pune	CoA, Baramati



	5000 Mtr. Run Men			ABM Narayangaon	CoA, Rethare	CoA, Phaltan
	Javelin Throw Men			CoA, Talsande	CoA, Phaltan	CoA, Ambi
	Javelin Throw Women			CoA, Dhule	CoA, Baramati	CoA, Phaltan
	Long Jump Men			CoA, Maldad	CoA, Dhule	CoA, Pune
	Long Jump Women			CoA, Pune	CoA, Karad	CoA, Baramati
	100 Mtr Run Men			CoA, Pune	CoA, Ambi	CoA, Dhule
	100Mtr Run Women			CoA, Pune	CoA, Baramati	-
	200 Mtr Run Men			CoA, Shahada	CoA, Ambi	CoA, Pune
	400 Mtr. Run Men			CoA, Pune	CoA, Shahada	ABM Narayangaon
	400 Mtr Run Women			CoA, Pune	CoA, Maldad	CoA, Pune
	1500 Mtr Run Men			ABM Loni	CoA, Vilad Ghat	CoA, Dhule
	1500 Mtr. Run Women			CoA, Pune	ABM Baramati	RCSM CoA, Kolhaur
	4x400 Mtr. Relay Men			CoA, Pune	CoA, Dhule	-
	High Jump Men			CoA, Maldad	CoA, Pune	RCSM CoA, Kolhaur
	Discuss Throw Men			ABM Nashik	CoA, Talsande	CoA, Ambi
	Discuss Throw Women			CoA, Karad	CoA, Karad	CoA, Pune
	Tripple Jump Men			CoA, Maldad	KKW CoA, Nashik	CoA, Sonai
	Shot Put Men			CoA, Pune	CoA, Phaltan	CoA, Dhule
	Shot Put Women			CoA, Karad	CoA, Baramati	CoA, Dhule
11	Cricket (M)	College of ABM, Loni	13 th & 16 th December, 2019	CoA, Ambi	KKW CoA, Nashik	PGI, MPKV, Rahuri



CoA- College of Agriculture, ABM- Agril. Business Management

- The Inter Collegiate Debating and Elocution Competitions was organized on 21st September, 2019 at Dr. Annasaheb Shinde College of Agricultural Engineering & Technology, MPKV, Rahuri.

The results of the competition are as below:

1) Debating competition**1. Co - operative Training - English**

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Gontapally Sai. S.	For	DY Patil, ABM, Akurdi	Winner
2	Dhanwade Darshan		CoA, Phaltan	Runner
3	Miss Kedar Snehal A.	Against	Dr. AS CAE&T Rahuri	Winner
4	Ghodake Ranjeet		CoA Kolhapur	Runner

2. Co - operative Training - Hindi

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Vimal Prajapati	For	Dr. AS CAE & T, Rahuri	Winner
2	Miss. Jadhav Pranali		CoA, Phaltan	Runner
3	Miss Mali Komal	Against	ABM, Narayangaon	Winner
4	Miss Landage Rutuja		CoA, Dhule	Runner

3. Population and Environment - English

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Chavan Vikram	For	RCSM CoA, Kolhapur	Winner
2	Mane Dattatraya	Against	CoA, Talsande	Runner

4. Population and Environment - Hindi

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Miss Navale Sonali	For	CoA, Dhule	Winner
2	Miss Gunjal Snehal	Against	CoA, Dhule	Runner

5. Agriunifest 2019 – English

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Sonawane Bhakti S.	For	CoA, Pune	Winner
2	Thamke Sushant	Against	CoA, Pune	Runner

6. Agriunifest 2019 – Hindi

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Cholke Hsishikesh N.	For	CoA, Loni	Winner
2	Jadhav Sagar Vilas	Against	CoA, Talsande	Runner



7. National Inter University Debate Competition – Pantnagar - English

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Pranit Fatangare	For	Dr. AS CAE &T, Rahuri	Winner
2	Ajay Shinde		CoA, Pune	Runner
3	Raj Gawande	Against	Dr. AS CAE &T, Rahuri	Winner
4	Saurabh Thube		CoA, Kolhapur	Runner

8. National Inter University Debate Competition – Pantnagar - Hindi

Sr. No.	Name of Student	For/Against	College	Runner/Winner
1	Ms. Vasuprada Nirali	For	Dr. AS CAE T, Rahuri	Winner
2	Rupam Ghule		CoA, Dhule	Runner
3	Rushikesh Pawar	Against	CoA, Baramati	Winner
4	Pritam Chavan		Dr. AS CAE & T, Rahuri	Runner

2) Elocution Competition Result**A) Shiksha Mandal Wardha**

Sr. No.	Name of Student	College	Runner/Winner
01	Miss Deshmukh Mayuri Hiraji	Dr. AS CAE & T, Rahuri	Winner
02	Shri Sonawane Harshal Rajendra	CoA, Dhule	Runner

B) Ex- Chancellor, P.C. Alexander Elocution Competition in Marathi

Sr. No.	Name of Student	College	Runner/Winner
01	Jadhav Jayesh N.	CoA, Dhule	Winner
02	Shivale Bhaskar	ABM, Narayangaon	Runner

B) Ex- Chancellor, P.C. Alexander Elocution Competition in English

Sr. No.	Name of Student	College	Runner/Winner
01	Mehetre Tejas B.	CoA, Dhule	Winner
02	Shinde Varad S.	Dr. AS CAE&T, Rahuri	Runner

D) Anti Dowry Movement, Mumbai

Sr. No.	Name of Student	College	Runner/Winner
01	Shri Pawar Rushikesh Bharat	CoA, Baramati	Winner
02	Devgude Neha Rajendra	CoA,, Phaltan	Runner



***CoA- College of Agriculture, ABM- Agril. Business Management**

- Students of Mahatma Phule Krishi Vidyapeeth, Rahuri participated in various Inter University Tournaments during year 2019-20 as given below

Sr. No.	Event	Date	Name of Winner University
1	Hockey (M)	October 23-29, 2019	Lakshmibai National Institute of Physical Education, Gwalior (MP)
2	Badminton (Women)	November 25-29, 2019	University of Kota, Kota(Rajasthan)
3	Weight Lifting & B. Phy	December 15-19, 2019	Chandigarh University Gharuan, Mohali (Punjab)
4	Cricket (Men)	December 23, 2019 to January 07, 2020	ITM University, Gwalior (MP)
5	Badminton (Men)	January 02-05, 2020	Swami Ramnand Teerth Marathwada University Nanded, Late Sow. Kamaltai Jamkar Mahila Mahavidyalaya, Parbhani
6	Mallkhamb	March 14-16, 2020	Guru Nanak Dev University, Amritsar (Punjab)

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 Budget

During the year University Library, Rahuri received the grants of Rs. 46.60 lakhs for salary and Rs. 3.71 lakh for Contingent expenditure and University fund of Rs. 5.27 lakh in addition to ICAR grants of 14.00 lakhs. This library received total grants of Rs. 69.28 lakh during the year under report.

Acquisition of Books and Journals

During the year under report the library received

178 books, 306 theses back volume 103, thus making total collection of 1,12,878 as on 31.3.2020. The library is also receiving 14 journals against exchange of JMAU 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

Mahatma Phule Krishi Vidyapeeth, Rahuri received the prestigious World Bank Project of Indian Council of Agricultural Research under National Agricultural Higher Education Project (NAHEP) entitled “Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management” (CAAST-CSAWM) with the main objectives,

1. To develop the capacity amongst the faculties and scientists for the development and adoption of the precise Climate Smart Agriculture and Water Management technologies.
2. To start the one year Post Graduate Diploma in “Climate Smart Agriculture and Water Management” for developing the human resources enabling them to start entrepreneurship and employable in 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 perspective beginner/middle level faculties/researchers for Post Doctorate studies in precision water management, precise climate smart agriculture and Geo-informatics.
3. To develop an integrated system including RS/GIS and GPS tools, modeling and SDSS tools using unmanned aerial system (UAS drone) and sensor-based technologies; and mobile applications and their applications for 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.20.00 Cr. was submitted under the leadership of Dr. K. P. Viswanatha, Vice-Chancellor, MPKV, Rahuri with contributions from Dr. A.L. Pharande, Dean (F/A) & Director of Instructions, 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, Dean (F/A) & Director of Instructions, MPKV, Rahuri by Dr. S. D. Gorantiwar, Principal Investigator and assisted by Dr. M. G. Shinde, Co-Principal Investigator and Dr. J. S. Pachpute, Co-Principal Investigator, 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 Institutes (IWMI); Colombo, Sri Lanka (CGAIR Organization), Asian Institute of Technology, Bangkok, Thailand and Loughborough University, UK 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.

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.

Major achievements during 2019-20 are highlighted below

1. Capacity Building

S.N.	Activities	Number
1	International Training	01
2	International Short visit	01
3	International Symposium	02
4	International scientists' students' interface/ International workshop:	03

5	Workshops/Student Industry Interface:	27
6	Trainings	28
7	Guest lectures	12
8	Exposure Visits	14
9	Demonstrations	05
	Total activities	94

The numbers of beneficiaries of the project were 5704 including faculties, students and farmers.

- Dr. Sunil Kadam, Assistant Professor IDE, One of the CAAST-CSAWM member of this University has been offered with the Post Doctorate Research Fellowship in Washington State University, Pullman, USA and he joined this assignment in USA in December, 2019.

2. Academic Programmes

- The framework of the PG Diploma along-with the courses to be offered in each module has been finalized during eight Workshops and Brainstorming sessions conducted at MPKV, Rahuri and Pune campuses with 24 National and International partners. This Diploma is novel in the sense that it is module based. There are four modules spread over 52 weeks i.e. one year. Module -1 is of 10 weeks duration; consisting of 3 courses of 3 weeks and followed by "Industry and Farmers Day". Module-2 and 3 are of 13 weeks duration each; consisting of 3 courses of 3 weeks duration each followed by project of 3 weeks duration. Module-4 is of 16 weeks duration followed by Project of 6 weeks duration. 71 courses of three weeks duration were developed for climate smart agriculture and water management in context of Natural Resources Management, Precision Agricultural Machineries, Precision Irrigation Management and Protected



Cultivation, Robotics, Drones and IoT, Geoinformatics and Social Science

- b) Started the Post Doctorate Research Programmes
- c) Finalized certificate courses
- d) Formulated the 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.
- e) Developed Drone/Robotics laboratories and up gradated RS & GIS and CAD-CAM laboratories.

3. Out of box research initiatives

- a) An **Automatic Ring Infiltrometer** was designed, developed and tested to measure the rate of water infiltration into the soil or other porous media in the field in order to overcome the difficulties and limitations of a conventional double-ring infiltrometer for infiltration rate measurement. This instrument is accurate in measurement and time convenient as compared to existing infiltrometers.
- b) **Phule SANMAN Software** and mobile app was developed to access the need of mechanization and available network solutions. This mobile application has been designed for data acquisition of current utilization agricultural machinery by farmers, finding the gap and to suggest optimum solution for mechanization with location and facilities of the service provider.
- c) Web based and Mobile based **Spatial Evapo-Transpiration (ET)** calculator was developed to calculate Spatial Reference ETr (mm/day) required to estimate water requirement of crop by entering name of location or by clicking on the location on Google Map. This calculator provides ETr of desired location for current day and next four

days based on the forecast weather using Penman Monteith method.

4. Knowledge Destination

- a) Developed **Climate Smart Agriculture Blocks** for research, experimentation and demonstration related to climate smart agriculture and water management.
- b) Implementing **Climate Smart Village** approach in eight selected villages and intern investigating the possibility scaling-up of climate smart agriculture and water management technologies.
- c) **Developed Village Level Contingency Crop Plan** for seven adopted villages of Akole Block, Maharashtra.
- d) Started the activities for developing the Buchkewadi in Junnar Tehsil of Pune digital village in context of the precision water management
- e) Organized the training programme for building the capacity of the farmers for climate smart agriculture and precision water management.

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. 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
 - Implementing a new concept of tree planting by involving all students with five tree plants by each student admitted to all degree programmes.



Educational Institutes

Sr. No.	Name of College	Syllabus	Intake Capacity
A) Constituent Colleges			
1	Post Graduate Institute	Ph.D	70
		M.Sc. (Agri)	168
		M.Sc. (Hort.)	12
		M.Sc. (Bio-tech)	8
2	College of Agriculture, Pune	Ph.D. (Agril. Met.)	02
		M.Sc. (Agri)	54
		M.Sc. (Hort.)	6
		M.B.A. (Agri)	30
		B.Sc.(Agri)	190
3	Rajshri Shahu Maharaj College of Agriculture, Kolhapur	M.Sc. (Agri)	48
		M.Sc. (Hort.)	6
		B.Sc.(Agri)	190
4	College of Agriculture, Dhule	M.Sc. (Agri)	24
		M.Sc. (Hort.)	4
		B.Sc.(Agri)	128
5	College of Agriculture, Karad	B.Sc.(Agri)	60
6	College of Agriculture, Nandurbar	B.Sc.(Agri)	60
7	College of Agriculture, Muktainagar	B.Sc.(Agri)	60
8	Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon Tah. Jamkhed, Dist. Ahmednagar	B.Sc.(Agri)	60
9	College of Horticulture, Pune	B.Sc.(Horti)	32
10	Dr. Annasaheb Shinde College of Agril. Engineering and Technology, Rahuri	Ph.D.	12
		M.Tech. (Agril Engg.)	16
		B.Tech. (Agril Engg.)	64
B) Affiliated Colleges			
1	College of Agriculture, Akluj	B.Sc.(Agri)	120
2	Dr. Appasaheb Pawar College of Agriculture, Baramati	B.Sc.(Agri)	180
3	Loknete Mohanrao Kadam College of Agriculture, Sonsal Hingangaon, Tal.Kadegaon	B.Sc.(Agri)	120
4	Karmyogi Dulaji Sitaram Patil College of Agriculture, Gangapur road, Nashik	B.Sc.(Agri)	120
5	Jaywantrao Bhosale Krishna College of Agriculture, Rethare	B.Sc.(Agri)	120
6	College of Agriculture, Sonai	B.Sc.(Agri)	180
7	K.K.Wagh College of Agriculture, Nashik	B.Sc.(Agri)	120



Sr. No.	Name of College	Syllabus	Intake Capacity
8	Dadasaheb Mokashi College of Agriculture, Rajmachi	B.Sc.(Agri)	120
9	Dr.Ulhas Patil College of Agriculture, Jalgaon	B.Sc.(Agri)	120
10	Vasant dada Patil College of Agriculture, Ambi, Talgaon Dabhade	B.Sc.(Agri)	120
11	College of Agriculture, Shahada, Dist. Nandurbar	B.Sc.(Agri)	120
12	Lokmangal College of Agriculture, Wadala	B.Sc.(Agri)	120
13	Dr. D. Y. Patil College of Agriculture, Talsande	B.Sc.(Agri)	120
14	College of Agriculture, Phaltan	B.Sc.(Agri)	120
15	College of Agriculture, Amalner	B.Sc.(Agri)	60
16	Shramshakti College of Agriculture, Maldad, Tal.Sangamner	B.Sc.(Agri)	120
17	Sadguru College of Agriculture, Mirajgaon	B.Sc.(Agri)	120
18	College of Agriculture, Dondaicha, Tal.Sindkhed	B.Sc.(Agri)	180
19	College of Agriculture, Babhulgaon Tal. Yeola	B.Sc.(Agri)	60
20	College of Agriculture, Pravaranagar, Loni Tal. Rahata	B.Sc.(Agri)	60
21	College of Agriculture, Ghargaon, Tal., Shrigonda	B.Sc.(Agri)	60
22	Sharad College of Agriculture, Jainapur Tal. Shirol	B.Sc.(Agri)	60
23	College of Agriculture, Paniv, Tal. Malshiras	B.Sc.(Agri)	60
24	College of Agriculture, Viladghat, Ahmednagar	B.Sc.(Agri)	60
25	College of Agriculture, Nesari Tal. Gadhingalaj	B.Sc.(Agri)	60
26	College of Agriculture, Malegaon	B.Sc.(Agri)	60
27	College of Agriculture, Bhanashiwra, Newasa, Ahmednagar	B.Sc.(Agri)	60
28	Shrimant Shivajiraje College of Horticulture, Phaltan	B.Sc.(Horti)	80
29	College of Horticulture, Sonsal Hingangaon, Tal.Kadegaon	B.Sc.(Horti)	40
30	K.K.Wagh College of Horticulture, Saraswatanagar, Nashik	B.Sc.(Horti)	40
31	H.H.S.S.M.S. College of Horticulture, Malegaon, Dist.Nashik	B.Sc.(Horti)	40
32	Shriram College of Horticulture, Paniv	B.Sc.(Horti)	40
33	Dr. Ulhas Patil College of Agril. Engineering & Technology, Jalgaon	B. Tech (Agril. Engg)	80
34	Dr. D. Y. Patil College of Agril. Engineering & Technology, Talsande	B. Tech (Agril. Engg)	80
35	K.K.Wagh College of Agril. Engineering & Technology, Nashik	B. Tech (Agril. Engg)	80
36	Sahyadri College of Agril. Engineering & Technology, Yashwantnagar, Karad	B. Tech (Agril. Engg)	40
37	College of Agril. Engineering & Technology, Mirajgaon	B. Tech (Agril. Engg)	40
38	Shriram College of Agril. Engineering & Technology, Paniv	B. Tech (Agril. Engg)	40



Sr. No.	Name of College	Syllabus	Intake Capacity
39	Shramshakti College of Agril. Engineering & Technology, Maldad	B. Tech (Agril. Engg)	40
40	Dadasaheb Mokashi College of Agril. Engineering & Technology, Rajmachi	B. Tech (Agril. Engg)	40
41	Dadasaheb Mokashi College of Food Technology, Rajmachi	B.Tech(Food-Tech)	80
42	K.K.Wagh College of Food Technology, Nashik	B.Tech(Food-Tech)	80
43	Shramshakti College of Food Technology, Maldad	B.Tech(Food-Tech)	80
44	College of Food Technology, Jalgaon	B.Tech(Food-Tech)	40
45	College of Food Technology, Diwanmala	B.Tech(Food-Tech)	40
46	G.D.College of Food Technology, Wagholi	B.Tech(Food-Tech)	40
47	College of Food Technology, Ghargaon	B.Tech(Food-Tech)	40
48	College of Agril. Bio-Technology, Loni, Tal.Rahata	B.Sc.(Agril. Bio-tech)	80
49	K.K.Wagh College of Agril. Bio-Technology, Nashik	B.Sc.(Agril. Bio-tech)	80
50	Lokmangal College of Agril. Bio-Technology, Wadala	B.Sc.(Agril. Bio-tech)	40
51	Modern College of Agril. Bio-Technology, Paud, Tal.Mulshi	B.Sc.(Agril. Bio-tech)	40
52	College of Agril. Bio-Technology, Madadgaon, Tal.Nagar	B.Sc.(Agril. Bio-tech)	80
53	College of Agril. Bio-Technology, Baramati	B.Sc.(Agril. Bio-tech)	40
54	Dr. D. Y. Patil College of Agricultural Business Management, Akurdi	BBM (Agri.)	80
55	College of Agricultural Business Management, Narayangaon, Tal.Junner	BBM (Agri.)	80
56	College of Agricultural Business Management, Sangli	BBM (Agri.)	40
57	College of Agricultural Business Management, Gunjalwadi, Tal.Sangamner	BBM (Agri.)	40
58	College of Agricultural Business Management, Loni, Tal. Rahata	BBM (Agri.)	40
59	K.K.Wagh College of Agricultural Business Management, Nashik	BBM (Agri.)	40
60	College of Agricultural Business Management, Wadala	BBM (Agri.)	40
61	College of Agricultural Business Management, Sharadnagar, Baramati	BBM (Agri.)	40
62	College of Agricultural Business Management, Paniv	BBM (Agri.)	40
63	College of Animal Husbandary, Baramati	B.Sc.(Animal Husbandry)	30



Sr. No.	Name of College	Syllabus	Intake Capacity
C) Agril. Tech. Schools & Mali Training Centers			
1	Ghatak Krishi Tantra Vidyalaya, Manjari Farm (Pune), Kolhapur, Dhule, Borgaon (Satara), Solapur, Digraj (Sangali), Puntamba (Ahmednagar), Jalgaon, Malegaon (Nashik)	Agril. Diploma	60 (each)
2	Private Agril. Tech. Schools (Total 74)	Agril. Poly. Diploma	60 (each)
3	Mali Training, Ganeshkhind, Pune	Certificate Course	40
4	Recognized Mali Training (Total - 04)	Certificate Course	40 (each)

**Passout Students of Graduate, Post Graduate, Agril. Diploma & Agril. Polytechnic of MPKV, Rahuri
(Academic year 2019-20)**

Sr.No.	Programme	Passout Students
Graduation		
1.	B.Sc. (Agril.)	2982
2.	B.Sc. (Horti.)	244
3.	B.Tech. (Agril. Engg.)	424
4.	B.Tech. (Food Technology)	383
5.	BBA (Agril.)	345
6.	B.Sc. (Agril. Bio.Tech.)	309
7.	B. Sc (Animal Hus.)	20
	Total	4707
Ph.D. and Post Graduation		
8.	Ph.D.	52
9.	M.Sc. (Agril.)	251
10.	M.Sc. (Horti.)	14
11.	M.Tech. (Agril. Engg.)	10
12.	MBA	30
13.	M.Sc. (Bio.Tech.)	03
	Total	360
Agril. Diploma & Agril. Polytechnic		
14.	Agril. Diploma	1715
15.	Agril. Polytechnic	3242



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 which falls in Central Plateau Zone in the jurisdiction of the university.

For conducting the research on soil, climate, cropping system, livestock and other aspects of farming business, the university has a network of research stations spread in different agro climatic zones. In all, 27 research stations are located in 4 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 Research Stations are located at Igatpuri, Pune, Kolhapur and Solapur. There are 18 Sub-Research Stations where mainly monitoring of research work is being done to test the technologies developed by the University as well as to take up the research programmes based on feedback received from the farmers.

At present, there are 82 non-plan schemes funded by State Govt., 45 AICRPs on different crops /plant sciences, 1 Network Projects funded by ICAR on 100% basis and one Centrally Sponsored Research Schemes funded by the Central Govt., Ministry of Agriculture 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 50 years, the university has released quite good number of high yielding varieties (more than 263) of cereals, pulses, oilseeds, vegetables, sugarcane, fruits, flowers and other cash crops. The appropriate agrotechniques 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 micropropagation, farm machinery, dryland horticulture, integrated pest and nutrient management including biofertilizers, mushroom production etc. is worth mentioning. The university has focussed 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.

During the period under report, university has recommended 9 crop varieties and 3 farm implement for release along with 59 recommendations, various aspects and registration of 1 biotic stress tolerant plant sources for benefit of the farmers.

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.



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

Research Station	Lead Function (s)	Verification Function (s)
A. Western Ghat Zone		
1. Igatpuri (Zonal Agril. Research Station)	Rice, Niger, Silviculture, Soil Water Conservation Engineering	Ragi, Beans, Rainfed fruits, Plantation crops, Turmeric
2. Lonavala	Rice (Screening for blast)	--
3. Mahabaleshwar	Wheat (Screening against rust)	Vegetables (cruciferous), Berries
4. Radhanagari	Paddy	Beans, Wheat, Wal
B. Sub-Montane Zone		
1. Kolhapur (Zonal Agril. Research Station)	Maize, Small Millets, Pandharpuri Buffaloe, Hortipastoral Systems, Sugarcane,	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. Gadhinglaj	Organic farming, Basmati Rice	Sorghum (K), Pulses, Chilli, and Oilseeds
4. Karad	INM for Cropping Systems	Pulses, Maize, Kharif Jowar, Soybean, Sunflower, Groundnut,
5. Vadgaon Maval	Rice	Rice based Cropping System.
C. Plain Zone		
1. Ganeshkhind, Pune (Zonal Agril. Research Station)	Fruits, Vegetables, Flowers, Rajmah Bean, Spices, Plantation Crops, AICRP on Potato	Pulses, Oilseeds and Wheat
2. Digraj	Turmeric, Soybean, Groundnut Betelvine, Problematic Soils	Kharif Jowar, Pulses Sugarcane, Sugar beet,
3. Niphad (State Level)	Wheat, Wheat based Cropping Systems	Pearl millet, Pulses and Oilseeds
4. Pimpalgaon Baswant	Grapes, Onion and Garlic	Pomegranate and Vegetables
D. Scarcity Zone		
1. Solapur (State Level) (Zonal Agril. Research Station)	Soils, Dry farming, Safflower Agrometeorology, Sunflower	Pearl millet, Pulses, Sorghum (R)
2. Mohol	Sorghum (R)	Pulses and Oilseeds
3. Jeur	Rainfed farming	Rabi Jowar, Pulses
4. Pandharpur	Pulses, Oilseeds	Arid Zone Fruit Crops
5. Chas	--	Dry farming, Pearl millet, Pulses (K), Sorghum (R)
6. Padegaon (State Level)	Sugarcane, Sugarcane based Farming & Cropping System	Sugar beet
7. 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. Savalivihir	Sunflower	Pearl millet, Pulses, Soybean, Cotton and Wheat
9. Shrirampur	Citrus	--
10. Dhule	Dry farming, Pearl millet, Grasses	Sorghum (K), Pulses, Oilseeds, Rainfed Cotton, Arid Zone Fruit Crops
11. Jadhavwadi (Pune)	Fig and Custard apple	Fig and custard apple
12. Lakhmapur	Pomegranate	Pomegranate
E. Central Plateau Zone		
1. Jalgaon (State Level)	Oilseeds, Banana and Betelvine, Rainfed Cotton	Pulses, Sorghum (K), Soybean, Sunflower



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.

Significant Research Achievements

A Released Verities /Hybrids

I. Field Crops

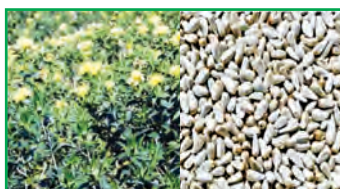
1 Chickpea : Phule Vishwaraj

Chickpea genotype "Phule Vishwaraj" is recommended for release in Maharashtra for rainfed cultivation.



2. Safflower: Phule Bhivara

Safflower variety "Phule Bhivara" is recommended for release for cultivation in safflower growing area of the Country (Maharashtra, Karnataka, Andhra and Telangana).



3 Safflower: Phule Nira

Safflower Phule Nira variety is recommended for release for cultivation in safflower growing area of the country (Maharashtra, Karnataka, Andhra and Telangana).



4 Cowpea: Phule Sonali

Determinate and uniform maturing cowpea variety 'Phule Sonali' (PCP-1123) is recommended for release in cowpea growing areas of western Maharashtra.



5 Mothbean : Phule Sarita

Mothbean variety 'Phule Sarita' (MBS-803) is recommended for release in scarcity zone of Western Maharashtra.



6 Mungbean : Phule Chetak

Early (69 days) and bold seeded Mungbean variety 'Phule Chetak' is recommended for *Kharif* cultivation in Maharashtra state.



7 Wheat : Phule Satwik

The bread wheat variety 'Phule Satwik' (NIAW-3170) is recommended for Peninsular Zone and North Western Plains Zone of India under restricted irrigation condition..



II. Horticulture crops

1 Grape : Manjari Medika (Hy) : The grape hybrid 'Manjari Medika' is recommended for release in Maharashtra state on the basis of higher juice recovery, uniform juice colour, juice quality and higher antioxidant content and moderately resistance to disease.

2 Grape : Manjari Shyama : Based on the performance of grape hybrid 'Manjari Shyama' for uniform black colour, bold and crunchy berries,

early harvest, higher yield and higher antioxidant properties, it is recommended for release in Maharashtra state.

B. Farm Implements

1 Tractor operated Phule Shredder

Tractor operated Phule Shredder is recommended to release for shredding of pruned



material and depositing horizontally on both sides of the bed in the orchards.

2 Phule Hydro-Mechanically Controlled Offset Orchard Manager

Tractor operated Phule Hydro-Mechanically Controlled Offset Orchard Manager' is



recommended to release for old root cutting and bed breaking operations simultaneously in orchards.

3 Phule Basin Lister

Tractordrawn automatic "Phule Basin Lister" is recommended to release for basin formation of 6



x 2 m size for *in-situ* water conservation for rain fed crops.

C. Recommendations

I Natural Resource Management

Soil Science and Agriculture Chemistry

1. Application of FYM 25 t ha⁻¹ with nitrogen, phosphorus and potassium as per yield target equation is recommended for 300 and 350 q ha⁻¹ rhizome yield of turmeric, balance nutrition and maintaining the soil fertility in medium deep black

soils of western Maharashtra.

Fertilizer prescription equation:

With FYM

$$FN = 0.92 \times T - 0.12 \times SN - 1.61 \times FYM$$

$$FP_2O_5 = 0.50 \times T - 1.75 \times SP - 0.52 \times FYM$$

$$FK_2O = 0.77 \times T - 0.12 \times SK - 2.17 \times FYM$$

Without FYM

$$FN = 1.39 \times T - 0.18 \times SN$$

$$FP_2O_5 = 0.84 \times T - 2.93 \times SP$$

$$FK_2O = 1.02 \times T - 0.16 \times SK$$

Where, FN, FP₂O₅ and FK₂O is fertilizer N, P₂O₅ and K₂O in kg ha⁻¹, T is yield target (q ha⁻¹), SN, SP and SK are soil available N, P and K in kg ha⁻¹ and FYM is farm yard manure in t ha⁻¹

2. Application of nutrients as per yield target of 50 q ha⁻¹ for Bt. Cotton through fertigation with 10 t ha⁻¹ FYM is recommended for higher yield, monetary returns and improving soil fertility of medium deep black soils of western Maharashtra.

Fertilizer prescription equation:

With FYM

$$FN = 9.58 \times T - 1.15 \times SN - 1.42 \times FYM$$

$$FP_2O_5 = 3.62 \times T - 2.99 \times SP - 1.59 \times FYM$$

$$FK_2O = 8.32 \times T - 0.45 \times SK - 3.77 \times FYM$$

Where, FN, FP₂O₅ and FK₂O is fertilizer N, P₂O₅ and K₂O in kg ha⁻¹, T is yield target (q ha⁻¹), SN, SP and SK are soil available N, P and K in kg ha⁻¹ and FYM is farm yard manure in t ha⁻¹

3. Seed treatment to soybean with FeSO₄ and ZnSO₄ @ 0.5% w/w (5 g kg⁻¹ seed) each at the time of sowing is recommended along with recommended dose of fertilizer (50:75:45 kg ha⁻¹ N:P₂O₅:K₂O + 5 t ha⁻¹ FYM) for increase in micronutrient uptake, grain yield and monetary returns on iron and zinc

deficient medium deep black soils of Western Maharashtra.

4. Soil application of silicon @ 100 kg ha⁻¹ through calcium silicate (278 kg ha⁻¹) or Bagasse ash (357 kg ha⁻¹) to *kharif* onion at the time of planting is recommended along with general recommended dose of fertilizer (100:50:50 kg ha⁻¹ N:P₂O₅:K₂O + 20 t ha⁻¹ FYM) for higher availability and uptake of micronutrients, bulb yield and monetary returns of *kharif* onion grown on shallow soils.
5. Soil application of FeSO₄ @ 20 kg ha⁻¹ + ZnSO₄ @ 10 kg ha⁻¹ incubated with FYM 100 kg ha⁻¹ for 15 days along with fertilizer application (100:75:75 kg ha⁻¹ N:P₂O₅:K₂O + 10 t ha⁻¹ FYM) for 100 q ha⁻¹ yield target at the time of transplanting of Aster is recommended for higher yield, monetary returns, maintaining iron and zinc status, in iron and zinc deficient medium deep black soils of western Maharashtra.
6. Soil application of GRDF (100:50:50 kg ha⁻¹ N:P₂O₅:K₂O + 10 t ha⁻¹ FYM) along with 12% humic acid 30 kg ha⁻¹ at the time of planting is recommended in medium deep black soils of plain zone of western Maharashtra for higher yield, maintaining soil fertility and higher economic returns from hybrid brinjal.
7. Soil application of 20 kg ha⁻¹ K₂O along with recommended dose of fertilizer (25:50 kg ha⁻¹ N:P₂O₅+ 10 t ha⁻¹ FYM) to *kharif* groundnut is recommended for low available potassium in shallow soils of sub-montane zone of Maharashtra for higher dry pod yield, monetary returns and improvement in potassium status of soils.
8. Soil application of 50 kg K₂O ha⁻¹ along with recommended dose of fertiliser (50 N: 25 P₂O₅ kg ha⁻¹) with 2.5 t ha⁻¹ of FYM is recommended for *kharif* sunflower grown on medium deep black soils of scarcity zone of Maharashtra for higher yield and monetary returns.
9. In blackgram-sorghum cropping sequence grown on medium deep black soils in scarcity zone of Maharashtra, the practice of minimum tillage followed by sowing of black gram for grain with 75% of RDF (19:38 N:P₂O₅ kg ha⁻¹) and hoeing at 3rd week. After harvest of blackgram, sowing of *rabi* sorghum along with 75% of RDF (38:19:25 N:P₂O₅: K₂O kg ha⁻¹) and two hoeings at 3rd and 5th week is recommended for getting higher yield, monetary returns and moisture use efficiency with maintaining soil health.
10. Spraying of 1 % Potassium Nitrate (KNO₃) at 35 and 55 days after sowing along with recommended dose of fertilizer (50:25:25 N:P₂O₅:K₂O kg ha⁻¹) is recommended for higher yield of *rabi* sorghum and mitigation of drought in medium deep black soils of scarcity zone of Maharashtra.
11. Application of 75 % nutrients as per STCR equation through fertigation along with phosphate solubilizing bacteria @ 2.5 L ha⁻¹ at planting and foliar application of acetobactor@ 3.0 L ha⁻¹ at 60 days after planting is recommended for achieving cane yield target of 200 t ha⁻¹ for preseasonal sugarcane and 150 t ha⁻¹ for its ratoon grown on medium deep black soils of western Maharashtra.

Irrigation Water Management

12. Application of irrigation water at 100% crop evapotranspiration on alternate day with 100% fertilization (100:50:50 N:P₂O₅:K₂O kg/ha) in 10 equal weekly splits through drip irrigation system is recommended to obtain better yield, water use and economic benefits from *rabi* garlic cultivated in shallow to medium soils of Western Maharashtra.



13. The period of January to June is recommended as critical stage for irrigation in acid lime for Western Maharashtra.
14. The irrigation schedule through drip for acid lime during crop growth period (January – December) is recommended for better growth, yield and quality of fruits with efficient water use for Western Maharashtra as follows.

January – February	60 % evaporation
March - April	80 % evaporation
May – June	60 % evaporation
July – August	80 % evaporation
September – October	60 % evaporation
November - December	80 % evaporation

Agronomy

15. In Western Maharashtra under irrigated condition growing of *Bt* cotton followed by *rabi* wheat with 100 per cent recommended dose of fertilizer to *Bt* Cotton (125:65:65 kg NPK ha⁻¹) and wheat (120:60:40 kg NPK ha⁻¹) is recommended instead of ratoon management in *Bt* cotton for obtaining higher productivity and monetary benefit.
16. In Western Maharashtra under irrigated condition for obtaining higher seed cotton yield and monetary returns of *Bt* cotton the following technologies are recommended in combination,
 - FYM @ 12 t/ha at second harrowing before sowing with application of 75% recommended dose of nitrogen (93.75 kg ha⁻¹) by placement (spot application in 4 splits (at basal, squaring, flowering and boll development stage) +100% phosphorus and potassium(65 kg ha⁻¹ each).
 - Three times foliar application of 1 % urea at squaring, flowering and boll development stage.
- Raising of one row *Sunnhemp* immediately after cotton sowing between two rows and incorporated before *sunnhemp* flowering.
17. Application of FYM @ 5 t/ha along with fertilizer dose of 40:40:40; N:P₂O₅: K₂O kg/ha at sowing time and 40 kg N/ ha at 30 days after sowing is recommended for higher seed production of tossa jute (*Corchorus olitorius* L.) on medium deep soil in *kharif* season.
18. Post emergence application of Metribuzine (70 % WP) @ 0.50 kg a.i. ha⁻¹ + 2, 4-D sodium salt (80 % WP) @ 1.00 kg a.i. ha⁻¹ in 500 liter water at 25 days after planting followed by interculturing at 60 and 90 days after planting is recommended for effective weed control and for higher remuneration in preseasonal sugarcane.

II. Animal Husbandry and Dairy Science

19. Use of 10 ml intramammary injection of Ceftiofur HCL (125 mg/10 ml) per teat at the time of drying off cow (dry cow therapy) is recommended for control of “Mastitis” in crossbred dairy cows.

III. Horticulture

20. Planting of banana *Cv. Grand Nain* on the raised bed of 1 meter width and 1ft height at 1.75 x 1.75m spacing is recommended to reduce the crop losses due to lodging and for getting the higher yield.
21. It is recommended to de-hand the ‘hands’ from distal end by keeping ‘8’ hands per bunch after bunch emergence and carry two sprays of 0.5% KH₂PO₄ + 1% Urea with first spray after de-handing and second spray 15 days after first spray on bunch for better export grade fruit production and higher returns in banana cv ‘Grand Naine’.
22. Pruning of main stem at 45 cm height with primary and secondary branches at 30 cm length is recommended for getting higher yield in drumstick.



IV Basic Sciences

23. Good quality osmotically dehydrated banana slices (8 mm thickness) can be prepared from ripped fruits ($^{\circ}\text{Brix}$ 20 to 22) by sulphuring @ 2 g/kg slices for 2 h followed by soaking in sugar syrup (60 $^{\circ}\text{Brix}$, 1:2 w/v) containing 0.1% KMS + 0.1% citrate + 0.2% ascorbic acid at ambient condition upto 16 h followed by mechanical drying at 55 $^{\circ}\text{C}$ until 15% moisture. The product remains in good condition when stored in 200 gauge polyethylene bags upto 6 months.
24. Good quality nutritious, crispy, high fiber Foxtail millet *Chakli* can be prepared using 1000 g Foxtail millet flour, 20 g Salt, 30 g Chilli powder, 50 g Cumin, hot water and oil can be used as per requirement.
25. Good quality nutritious, crispy, high fiber Foxtail millet *Sev* can be prepared using 500 g Foxtail millet flour and 500 g Bengal gram flour, 20 g Salt, 30 g Chilli powder, 50 g Cumin and hot water and oil as per requirement.
26. Good quality cookies with high fiber content can be prepared with 800 g Barnyard millet flour and 200 g Wheat flour, 500 g Sugar, 500 g Fat, 5 g Ammonium bicarbonate and 5 g Sodium bicarbonate.
27. Flood affected sugarcane can be utilized for the preparation of acceptable quality jaggery with better recovery by pre cleaning the flood affected and normal cane by dipping in hot water at 60 $^{\circ}\text{C}$ for 10 minutes followed by crushing and mixing 50:50 proportion of juice.
28. The procedure as specified below is recommended for preparation and storage of guava variety sardar pulp in good quality upto 6 months at cold storage ($5\pm 1^{\circ}\text{C}$ temperature and $92.5\pm 2.5\%$ relative humidity and for 3 months at ambient condition.

1. Select fully ripe guava fruit Cv.Sardar
2. Extract pulp from guava fruit pieces without blanching by screw type pulper and strain the pulp.
3. Add 0.1% potassium metabisulphite in pulp and pasteurize at 85 $^{\circ}\text{C}$ for 10 minutes. The pasteurized pulp is filled in pre-sterilized retortable pouches and the pouches be pasteurized for 15 minutes.

29. Dipping Guava Fruit (Cv.sardar) with 50 ppm benzyl adenine for 5 minutes and packing in 300 gauge (75 microns) LDPE is recommended for extending storage life of guava fruit cultivar sardar upto 30 days in cold storage ($8\pm 1^{\circ}\text{C}$ temperature and $92.5 \pm 2.5\%$ relative humidity) and 10 days at ambient condition.

Microbiology

30. Application of consortium of potash mobilizing bacterial liquid bioinoculant @ 2.5 lit ha $^{-1}$ in 500 lits water at the time of planting by drenching method with 75% of recommended potash source (87 kg ha $^{-1}$) & 100% recommended dose of Nitrogen & Phosphorous (250 & 115 kg ha $^{-1}$) is recommended for getting maximum cane & sugar yield in Suru sugarcane.
31. Seed treatment of wheat with MPKV consortium of *Azotobacter*, PSB and Potash mobilizing bacteria @ 25g / kg seed along with 75 per cent dose of recommended fertilizers i.e. 90 kg nitrogen, 45 kg phosphate and 30 kg potash per ha is recommended for obtaining higher yield, monetary returns and saving of 25% nitrogen, phosphate and potash fertilizers.

V. Plant Protection

Agril Entomology

32. Two sprays of cyantraniliprole 10.26 OD @ 9 ml per 10 litre of water at an interval of 15 days are



recommended for the control of aphids and thrips in pomegranate as soon as incidence is noticed.

33. Two sprays of *Metarhizium (Nomuraea) rileyi* 1.15 WP or *Metarhizium anisopliae* 1.15 WP @ 50 g per 10 litre of water are recommended for the control of fall armyworm, *Spodoptera frugiperda* at an interval of 15 days as soon as the incidence is noticed on maize during *Kharif* season.
34. Two sprays of spinetoram 11.7 SC @ 5 ml or chlorantraniliprole 18.5 SC @ 4 ml per 10 litre of water at an interval of 15 days are recommended for the effective control of fall armyworm, *Spodoptera frugiperda* as soon as the incidence is noticed on maize for grain production.

VI Agril Engg

Soil Water Conservation

35. It is recommended that ridges and furrows of 60 cm width should be prepared for rainfed Soybean crop cultivation for optimum crop yield and rainwater harvesting in scarcity region of Maharashtra.

Irrigation and Drainage Engineering

36. The tabular information and maps developed in Geographical Information System (GIS) by Mahatma Phule Krishi Vidyapeeth for tahsils of western Maharashtra are recommended for estimating weekly water and irrigation requirement of cabbage crop by surface and drip methods and green pea crop by surface and sprinkler methods at specific locations.
37. It is recommended to use the following yield response factors for estimating the yield of *suru* sugarcane for different irrigation strategies.
- a The estimated seasonal crop = 1.11 response factor (K_y)

b Stagewise yield response factors (K_y) are

- Tillering stage, $K_{y1}(45-135 \text{ days}) = 0.32$
- Grand growth stage, $K_{y2}(136-300 \text{ days}) = 0.79$
- Maturity stage, $K_{y3}(301 \text{ days up to harvest}) = 0.08$

38. It is recommended to irrigate tomato with 100% irrigation at vegetative (0-35 days) and fruit development (36-70 days) stages while with 20% less water than required during maturity stage (i.e. 71 days up to harvest) in water scarcity condition for obtaining optimum production of tomato.

39. The crop coefficients given in following table are recommended for the estimation of water requirement of tomato crop.

Week since planting	Kc values	Week since planting	Kc values
1	0.54	10	1.31
2	0.79	11	1.33
3	0.90	12	1.29
4	0.98	13	1.28
5	1.06	14	1.24
6	1.17	15	1.16
7	1.22	16	1.01
8	1.24	17	0.91
9	1.29		

Alternatively, following equation is recommended

$$K_{c_t} = 12.46 \left(\frac{t}{T}\right)^5 - 36.02 \left(\frac{t}{T}\right)^4 + 37.38 \left(\frac{t}{T}\right)^3 - 19.43 \left(\frac{t}{T}\right)^2 + 6.122 \left(\frac{t}{T}\right) + 0.269$$

Where,

K_{c_t} = crop coefficient on t^{th} day

t = number of days since planting

T = total crop period

40. It is recommended to use the following yield response factors for estimating the yield of tomato for different irrigation strategies.

a. The seasonal yield response factor (K_y) = 1.28

b Stagewise yield response factors (K_y) are

i. Vegetative stage, K_{y_1} (0-35 days) = 0.41

ii. Fruit development stage, K_{y_2} (36-70 days) = 0.47

iii. Maturity stage, K_{y_3} (71 days up to harvest) = 0.35

41. It is recommended to irrigate cotton with 100% irrigation at flowering (46-105 days) and boll formation (106 days up to harvest) stages while with 30% less water than required during square formation stage (0-45 days after sowing) in water scarcity condition for obtaining optimum production of cotton.

42. The crop coefficients given in following table are recommended for the estimation of water requirement of cotton (Bt) crop.

Week since sowing	Kc values	Week since sowing	Kc values
1	0.42	12	1.18
2	0.35	13	1.20
3	0.35	14	1.18
4	0.40	15	1.14
5	0.49	16	1.08
6	0.61	17	0.99
7	0.74	18	0.89
8	0.86	19	0.77
9	0.97	20	0.65
10	1.06	21	0.55
11	1.13	22	0.46

Alternatively, following equation is recommended

$$K_{c_t} = -3.943\left(\frac{t}{T}\right)^5 + 30.76\left(\frac{t}{T}\right)^4 - 54.8\left(\frac{t}{T}\right)^3 + 32.94\left(\frac{t}{T}\right)^2 - 5.163\left(\frac{t}{T}\right) + 0.572$$

Where,

K_{c_t} = crop coefficient on t^{th} day
 t = number of days since sowing

T = total crop period

43. It is recommended to use the following yield response factors for estimating the yield of cotton (Bt) for different irrigation strategies.

a The seasonal yield response factor (K_y) = 1.13

b Stagewise yield response factors (K_y) are

i. Square formation stage, K_{y_1} (0-45 days) = 0.47

ii. Flowering stage, K_{y_2} (46-105 days) = 0.41

iii. Boll formation stage, K_{y_3} (106 days up to harvest) = 0.27

44. It is recommended to irrigate wheat with 100% irrigation at crown root initiation (0-25 days) and late jointing (26-65 days) stages while with 30% less water than required during milking stage (i.e. 66 days up to harvest) in water scarcity condition for obtaining optimum production of wheat.

45. The crop coefficients given in following table are recommended for the estimation of water requirement of wheat crop.

Week since sowing	Kc values
1	0.35
2	0.42
3	0.61
4	0.86
5	0.97
6	1.11
7	1.19
8	1.15
9	1.14
10	1.03
11	0.80
12	0.62

Alternatively following equation is recommended

$$K_{c_t} = -31.138\left(\frac{t}{T}\right)^5 + 83.51\left(\frac{t}{T}\right)^4 - 86.198\left(\frac{t}{T}\right)^3 + 35.96\left(\frac{t}{T}\right)^2 - 3.4254\left(\frac{t}{T}\right) + 0.4362$$

Where,



Kc_t = crop coefficient on t^{th} day

t = number of days since sowing

T = total crop period

46. It is recommended to use the following yield response factors for estimating the yield of wheat for different irrigation strategies.

a. The seasonal yield response factor (K_y) = 1.30

b. Stagewise yield response factors (K_y) are

i. Crown root initiation, K_{y_1} (0-25 days) = 0.49

ii. Late jointing, K_{y_2} (26-65 days) = 0.47

iii. Milking stage, K_{y_3} (i.e. 66 days up to harvest) = 0.36

47. The developed equation is recommended for yield prediction of drip irrigated cucumber crop under shading nets with silver- black plastic mulch and non mulch conditions.

Crop under silver black plastic mulch

$$Y = -0.02107 X_1 - 47.9953 X_2 + 0.702623 X_3 - 2.81051 X_4 + 245.31$$

Crop without mulch

$$Y = -0.01861 X_1 - 32.3151 X_2 - 0.05762 X_3 - 1.66886 X_4 + 174.3166$$

Where,

Y = Cucumber yield ($Kg\ ha^{-1}$)

X_1 = Seasonal water required (mm)

X_2 = B-FR ratio

X_3 = Mean temperature ($^{\circ}C$)

X_4 = Mean relative humidity (per cent)

VII Social Sciences

Agril. Extension

48. It was observed from the results of the study that the maize growers from Ahmednagar district had mostly utilized (39.17 %) internet facility on mobile for acquiring agricultural information. It is, therefore, recommended that the university scientists may develop the audio-video clips and mobile applications for management of Fall Army

Worm of maize and give wide publicity through State Department of Agriculture for the benefit of farmers on large scale.

49. From the study on, Mitigation practices followed by cotton growers to control Pink Bollworm in Dhule District it is concluded that, majority of the respondents were educated, had medium level of scientific orientation, risk orientation, used sources of information to medium level. But still, very few number of cotton growers installed and used trichocard and light trap for mass trapping of adult moths and other bio-agents. Besides this majority of the respondents use mitigation practices up to medium level only.

Therefore, from the study it is strongly recommended that State Agricultural Universities and State Agril. Dept. should jointly develop Suitable Mobile App and provide to cotton growers.

In this context, organize awareness campaign and give wide publicity to recommended mitigation practices for control of pink bollworm. Also pheromone traps, tricho-cards and bio-pesticides should be made available on large scale at reasonable cost at grass root level.

50. By considering the physical characteristics of selected recommended varieties under study, there is need to popularize the variety CoM 09057 among jaggery producers. Therefore, efforts should be made through various extension programmes (viz. Group discussion, Farmers relay etc.) with the collaboration of Maharashtra State Agril. Department and Krishi Vigyan Kendras.

51. Low cost mole drain technology is found economically feasible for reclamation of saline-waterlogged and ill drained deep black soils on small and marginal farmers field. Hence, efforts should be made to increase awareness among



farmers through extension activities viz; Group discussions, Farmers rallies etc. to popularize this technology by Department of Agriculture, Maharashtra and Krishi Vigyan Kendra in collaboration with Agril. Universities. To reinforce the technology dissemination, High power tractor (> 65 HP) with mole plough should be provided on custom hire basis by Department of Agriculture, Maharashtra or bank loan facility may be availed on 4% interest rate as of crop loan. Also for effective implementation of this technology, sugar factories should made outlet drains in their command area.

52. In the study entitled “Documentation of IFS models in Pune Region” it was observed that in Pune district among different models Agriculture+Horticulture+Dairy+Value addition (fruit processing) (2.41) followed by Agriculture+Horticulture+Poultry+Fisheries (2.38) and Agriculture + horticulture+ Dairy+ goat farming + poultry (2.18) resulted in higher average B:C ratio. Similarly from rainfed area like Solapur district average B:C ratios for the combination of Agriculture+Sericulture (2.09), Horticulture + Sericulture +Goat farming (1.90) and Agriculture+Horticulture+Dairy (1.74) were observed as higher compared to other combinations. Hence, it is recommended that the farmers from Pune and Solapur district should adopt these suggested respective IFS models for sustainable agriculture and to augment their income.

Agril Economics

53. The nutrient management, variety and seed application aspects, interculturing, preparatory tillage and protective irrigation contributes around 31, 26, 17, 12 and 12 per cent to the yield of green gram. Therefore, it is recommended that green gram farmers shall adopt these technologies to a

greater extent to get higher productivity.

54. The farmers in Maharashtra earned gross economic returns of Rs. 29120 Crores and net economic benefit of Rs. 6189 Crores from university released gram varieties (Vijay, Vishal, Digvijay, Virat, Vihar, Phule G-12, Vishwas, Rajas, Kripa) during 28 years (1990-91 to 2017-18). It reveals that an investment of one rupee in gram research and extension generated income of Rs. 27 with 31 percent Internal Rate of Return (IRR). Therefore, it is recommended that the substantial funds be provided for research and extension activities for gram.
55. The increase in Minimum Support Price (MSP) indices of Groundnut, Soybean and Sunflower at constant prices was less than increase in the inputs price indices during 1996-97 to 2016-17 by 114, 66 and 33 per cent, respectively. Therefore, it is recommended that there is need to maintain the parity between Minimum Support Prices (MSP) and Input Prices.
56. Price received for grapes by members of Abhinav Farmers Group was higher (Rs. 62/kg) than the other farmers (Rs. 39/kg) with the high internal rate of returns (32%). Therefore fruit farmers shall formulate Farmer Producer's Groups.
57. Based on the last 10 years data (2009-10 to 2018-19) in unirrigated area of Dhule district, the loan disbursement and loan recovery has been decreased by 26 and 52 per cent, respectively. In order to improve the performance of these PACS, it is recommended that the funds from National Agricultural Credit (Stabilization) Fund and National Agricultural Credit (Long Term Operations) Fund as recommended by All India Rural Credit Survey Committee (AIRSCS) be provided for smooth running of these PACS.



Agril Statistics

58. The fertilizer use for crop production in Nashik, Dhule, Nandurbar, Ahmednagar and Pune districts of Western Maharashtra are in extreme imbalanced proportion and moderately balanced in Jalgaon, Solapur, Satara and Kolhapur.

Imbalance use of fertilizers affected the soil health. Therefore, it is recommended to use fertilizers in the ratio of 2 N: 1 P₂O₅ : 1 K₂O for maintaining soil health in Western Maharashtra.

VIII Resistant source for Biotic and Abiotic stress

59. Based on aphid infestation, foliage drying grades, yield capacity, outer -morphological plant characteristics and bio-chemical parameters, the two genotypes viz., SSF-682 and SSF-695 are identified as resistant source for safflower aphid.

Seed production Programme

Seed Production	University Farm	- 8071 q
	Farmers Participatory	- 14000 q
	Pulses Seed Hub	- 3740 q
	Total	- 25811 q
Planting Material (No. of grafts)	9.38 Lakhs	
Biopesticides	45 MT & 300 Lit.	
Biofertilizers	44.6 MT & 7001 Lit	
Micronutrient formulation	5400 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-eco-situations.
- 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 DEC's 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 DEC's 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 stake holders 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 *KrishiDarshani*, an annual farm diary which is very popular among the farmers. Besides *ShriSugi*, a periodical is published before every season of the year. Also an e news-MPKV Happenings, and MPKV News Letter 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

• Farmer FIRST Schemes

Farmer FIRST project under *Rashtriya Krishi Vikas Yojana (RKVY)* : The project entitled Farmer FIRST with budget outlay of Rs 5.91 crore is an MPKV initiative to move beyond the production and productivity and to privilege the complex, diverse and risk prone realities of majority of the farmers through enhancing farmers-scientists contact with multi stakeholder's participation. The various technology components include Sugarcane+ Vegetable Intercrops (1500), Cotton based production technology (900), Groundnut based production technology (300), Gram based production technology (300), Bacterial Blight disease management in pomegranate (600), Cigatoka disease management in Banana (300), Onion set planting (*Chingali Kanda-900*), Mole Plough technology for ill drained soil (450) and Animal Component (Feed support, Health care and mineral supplement, Artificial insemination in cows for upgrading, Supply of fodder grasses sets, Backyard Poultry-Supply of chicks and feeding (300). Thus, through this project University will reach 5550 farmer participants and there will be horizontal expansion of the farmers in the region.

• 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.

Major extension activities

- **Retrospection – 2019:** A Magova (Retrospection) programme to review the various activities of the University during the year 2019 and a Rabi Farmers Rally in coordination with State Department of Agriculture was organized in the university on January 11, 2020. Shri. Dadaji Bhuse, Hon'ble Minister of Agriculture, M. S. and Pro-Chancellor, MPKV, Rahuri was the Chief Guest, while, Shri. Balasaheb Thorat, Hon'ble Minister of Revenue, M. S. was the guest of honour for the function. Vice Chancellor Dr. K.P. Viswanatha presided over the function. Shri. Lahu Kanade, MLA, Shri. Vishwajit Mane, Director General, MCAER, Pune, Executive Council member and MLC Shri. Prakash Gajbhiye, Prof. Nathaji Chougule, Mrs. Sunita Patil, Shri. Prataprao Shelke, Vice President, Zilla Parishad, Ahmednagar, Directors, Associate Deans, Officers of the university were present. Dr. S. R. Gadakh presented the research and extension activities of the past year. Dr. A. L. Pharande, Dean, Faculty of Agriculture and Shri. Sopan Kasar, Registrar presented the reports on education and administration, respectively. The popular University publication *Krishi Darshani-2020*, *Accomplishments-2019* and *MPKV: At a Glance* were released during the function. *MPKV Calendar-2020*, depicting monthwise agricultural information was released on the occasion of Magova programme. The university website was also launched.
- **Action Plan Workshop of KVK:** Mahatma Phule Krishi Vidyapeeth, Rahuri and ICAR-ATARI, Zone VIII, Pune jointly organized an Action Plan



Workshop of KVKs for western Maharashtra during 9th March, 2020 at MPKV, Rahuri. The workshop was inaugurated by Dr. S.R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri. The university scientists guided the participants. During the workshop the Programme Co-ordinators and Subject Matter Specialists of respective KVKs presented their action plan and it was finalized in consultation with university experts. In all 165 Programme Co-ordinators, SMSs and other staff of KVKs participated in the programme.

Zonal Agricultural Research and Extension Interface

- The Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2019 was organized by MPKV, Rahuri in co-ordination with the State Department of Agriculture, MS at *Kamdhenu* Auditorium Commissionerate of Animal Husbandry, Pune the on 19th June, 2019 for Nashik, Pune and Kolhapur divisions. Vice Chancellor Dr. K. P. Viswanatha presided over the meeting. Shri. Suhash Diwase, Commissioner (Agriculture), M. S., Directors Dr. S. R. Gadakh, Shri. P.N. Pokale, Dr. Lakhan Singh were present on the dais. Dr. S. R. Gadakh, Director of Extension Education, MPKV, Rahuri made brief presentation on extension, various recommendations and released varieties during 2019 and guided the participants, While, Heads of Departments, Joint Directors of Agriculture Shri. Zhende, Shri. Bhatane Mr. Sapre, 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 160 participants including SDAOs, TAOs and Programme Co-ordinators from KVKs and Scientists from university attended the
- said meeting.
- The Zonal Agricultural Research and Extension Advisory Committee meeting for Rabi and Summer 2019-20 was organized on October 25, 2019 at the Mahatma Phule Krishi Vidyapeeth, Rahuri in collaboration with Department of Agriculture, M.S. Vice Chancellor Dr. K. P. Viswanatha presided over the meeting. Dr. S. R. Gadakh, Director of Research and Director, Extension Education, Dr. P. N. Pokle, Director, Horticulture, M.S., Joint Directors of Agriculture Shri. Dilip Zhende, Shri. Dashrath Tambale, Shri. Ramesh Bhadane, Associate Deans Dr. S. B. Kharbade, Dr. G. G. Khot, Dr. R. R. Suryavanshi and Associate Director of Research Dr. V. D. Shende were present on the dais. Dr. S. R. Gadakh, Director, Extension Education gave the introductory remarks and made a presentation on extension activities. Associate Directors of Research, Crop Specialists, scientists, KVKs, Regional and District Extension Centres and officers of Department of Agriculture participated in the discussions.
- A massive tree plantation programme *Vanmohotsav* -2019 and *Krishidin* was organized on July 08, 2019 at the Mahatma Phule Krishi Vidyapeeth, Rahuri to celebrate the birth anniversary of former Chief Minister of Maharashtra late Vasant Rao Naik. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri presided over the function. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Fasiuddin Shaikh, Tahsildar, Rahuri, Shri. Milind Dhole, University Engineer, Associate Deans Dr. P. A. Turbatmath, Dr. S. A. Ranpise, Dr. V. D. Shende, Nodal Officer, Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon and Shri. Devkhile, Deputy Conservator of Forest,



Ahmednagar were present. After the inaugural programme tree plantation was done at various sites in presence of Shri. Rahul Dviwedi, District Collector, Ahmednagar, Shri. Adarsha Reddy, District Conservator of Forests, Ahmednagar and Mrs. KirtiJamdhade, District Forest Officer, Ahmednagar. The university staff and students planted trees at the central campus. These include neem, jamun, mango, bamboo, karanj, aonla, hirda, behada, kagzi lime and various medicinal and forest plants.

- The Diploma in Agricultural Extension Services for Input Dealers (DAESI) programme sponsored by ATMA, Dhule and Solapur is running at KVK, Dhule and Mohol. The batch of 40 input dealers are undergone this training programme at the respective campuses. The KVKs are acting as a facilitating organization for the same.
- Farming system for Nutrition Project (FSN): KrishiVigyan Kendra, Mohol, Dist. Solapur and KrishiVigyan Kendra, Dhule is implementing UNICEF Funded Farming System for Nutrition (FSN) project in collaboration with ATARI, Zone-VIII, Pune, MCAER, Pune and Technical support from M.S. Swaminathan Research Foundation, Chennai. In this context, KVK, Mohol organized Training cum workshop on FSN (Farming system for Nutrition Project) at Pokrapur, Tal- Mohol on 20th June, 2019 under FSN project.
- An Awareness programme of Jalshakti Abhiyan was launched at MPKV, Rahuri in coordination with the Department of Agriculture and KrishiVigyan Kendra on August 5, 2019. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Shri. Vilas Nalage, DSAO, Ahmednagar, Dr. M.M. Desai, Manager, ATIC, Shri. Mahendra Thokle, TAO, Rahuri, Dr.

SambhajiNalkar, Head, KVK, Babhaleshwar, Dr. Kaushik, Head, KVK, Dahigaonne, Dr. P. B. Kharde, Officer Incharge, Communication Centre and scientists, staff of Agriculture Department were present on this occasion.

Activities under ICAR Farmer FIRST Programme

- A training programme on Bajra and Red Gram Production Technology under ICAR Farmer FIRST programme was organized on June 17, 2019 at the central campus. Dr. N.S. Kute, Principal Scientist, AICRP on Pulses and other experts from university guided the participants pertaining to bajra and red gram production technology. During this occasion Bajara seed (*Dhanshakti and Adishakati*) were distributed to the farmer participants. About 60 farmers participated in the training programme.
- A Training Programme on Vermicompost production and Silage making was organized at the Integrated Farming System project of MPKV, Rahuri under the ICAR Farmer FIRST programme on July 9, 2019. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. Dr. PrahladPokle, Director, Horticulture, M. S., Dr. A. V. Solanke, Head, Department of Agronomy, Shri. Hasanabade, PD, NHM, Dr. P. B. Kharde, PI, ICAR FFP, Dr. U. S. Surve, Principle Scientist, IFS project were present. University scientists Dr. UlhasSurve, Dr. Mahendra Mote and Dr. Sunil Adangale guided on IFS model, vermicompost production and silage making along with demonstrations during the one day training programme. Vermicompost and silage bags were distributed to the trainees. Fifty participant farmers and farm women of Chinchvihire and Kangar villages participated in this training programme.
- Dr. S. R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri visited the ICAR Farmer



- FIRST villages viz., Chinchvihire and Kangar on July 19, 2019. He visited the PKV Mini Dal Mill unit run by a women Self Help Group, Integrated Farming System model of participant farmer Shri. DilipNalkar, bajra-Adishakti variety and red gram-PhuleRajeshwari variety crop demonstration plots and also the dairy unit, goat rearing and backyard poultry, pomegranate orchard (Bhagwa variety) of participant farmer Shri. Sunil Walke in Chinchvihire village. Further, he visited the loose housing system of cattle of Shri. BhaskarShete, goat rearing unit of Shri. RajendraWarghude, bajra demonstration and backyard poultry unit of Shri. RaosahebGade in Kangar village and guided the participant farmers.
- A one day exposure visit of ICAR Farmer FIRST programme participant farmers and farm women was organized to KVK, Babhaleshwar and various vermicomposting, goat rearing units at Kolhar, Khandala villages of Rahatataluka and Devgad, Punatgaon villages of Newasataluka on July 25, 2019. Dr. P. B. Kharde, PI and Co-PIs Dr. A. G. Durgude, Dr. B. A. Deshmukh, Dr. S. S. Sadaphal and Dr. R. G. Nimse participated in the visit and guided the participants. In all total 37 farmers were participated in the exposure visit.
 - Dr. S. R. Gadakh, Director of Research and Extension Education visited Ajnale village of Sangolatahasil of Solapur district on August 2, 2019. He visited the orchards of farmers Shri. Mahadev Lade, Shri. Pandurang Lade and Shri. NitinYelapalle. Mr. RajaramPatil, the first innovator of pomegranate orchard of the village briefed about the history of pomegranate and present status of the village. Mr. Ajay Dighe, SMS (Agril. Extn.) explained about the success of Ajnale. Mr. PrabhakarChandane, Chairman, *AkhilBhartiyaDalimbSangh* mentioned about the technical interventions provided by MPKV to the pomegranate growers of the state.
 - Dr. Lakhan Singh, Director, ATARI, Pune visited KrishiVigyan Kendra, Mohol. He was accompanied by Dr. DVS Reddy, Pr. Scientist, ATARI, Bengaluru. Dr. Singh inaugurated the display board of the plan layout of KVK instructional farm. Trees were planted at the hands of the dignitaries. Dr. T. R. Walkunde, I/C Head of KVK welcomed the dignitaries. Mr. K. A. Jadhav, SMS (Hort.) briefed about the fruit crop cafeteria, mother orchard block, dragon fruit demo plot, lawn and ornamental plants for beautification. Dr. L. R. Tambade, Head, KVK, Solapur-I, Mr. A. G. Dighe, SMS (Agril. Extn.) and staff of KVK, Mohol were present during the visit.
 - A training programme on Sugarcane intercropping, Dairy and Poultry management was organized at MPKV, Rahuri for officers of Agriculture Department under the RashtriyaKrishiVikasYojana (RKVY) Farmer FIRST project February 19, 2020. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. Dr. A. V. Solanke, Head, Department of Agronomy, Prof. M. N. Desai, PI, RKVY FFP, Shri. R. K. Gaikwad, SDAO, Karjat, Shri. Sanjay Kachole, TAO, Shrirampur, Shri. MahendraThokle, TAO, Rahuri and Dr. Sunil Adangale, Co-PI, RKVY FFP were present. Around 70 officers and staff of Agriculture Department participated in this training programme. Dr. G. K. Waman, PRO, Dr. DeepikaAglawae, R.A. and Field Assistants Shri. RohitUghade, Shri. Saddam Shaikh took efforts in organizing the programme.
 - Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune along with Dr. R. K. Singh, Former Head, Department of Agril. Economics, CSAAUT, Kanpur, KVKs of Maharashtra and Gujarat and ICAR FFPs from NAU, Navsari and JAU, Junagadh



visited the MPKV's ICAR FFP village Chinchvhire on January 3, 2020. The team visited various demonstration plots vermicompost unit and other activities of under the project.

- An off campus Training Programme on Pomegranate Production Technology was organized at Kangar village under the ICAR Farmer FIRST programme on January 20, 2020. The university scientists guided the farmers on production techniques, integrated nutrient management, plant protection in pomegranate production. More than fifty farmers were present for the training programme. In the afternoon session the scientists visited the pomegranate orchards of Shri. Babasaheb Warghude (Kangar). Shri. Dilip Nalkar (Chinchvhire) and Shri. Maruti Gite (Chinchvhire) and guided them.

Model Training programme on Processing and Value Addition

- A Model Training Programme on Processing and Value Addition Technology in Fruits and Vegetables sponsored by Ministry of Agriculture and Farmers Welfare, GoI was organized during November 18-25, 2019 by the Department of Food Science and Technology at MPKV, Rahuri. Dr. Y. G. Fulpagare, Associate Dean, Post Graduate Institute inaugurated the training programme. In all twenty two trainees from SAUs and Department of Agriculture from the country participated in this training programme.

Training programme on Soft Skills for Personality Development

- A training programme on Soft Skills for Personality Development organized by the Department of Agriculture Extension and Communication in coordination with the Extension Education Institute, Anand (Gujarat) at MPKV, Rahuri during November 18-19, 2019. Dr. Y. G. Fulpagare, Associate Dean, PGI inaugurated the programme. The valedictory

programme was conducted in presence of Dr. S. R. Gadakh, Director of Research and Extension Education. More than fifty trainees participated in this training programme.

Kisan Aadhar Sammelan-2019

- The event of Kisan Aadhar Sammelan-2019 was organized at the Mahatma Phule Krishi Vidyapeeth, Rahuri during October 25-26, 2019 in collaboration with Department of Agriculture, M.S. and Agriculture Technology Management Agency (ATMA), Ahmednagar. The event comprised of Live Crop Demonstrations, Agriculture and Animal Exhibition and Expert lectures. The Kisan Aadhar Sammelan-2019 was inaugurated at the auspicious hands of Dr. Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority and Chairman, Committee on Doubling of Farmers' Income, Ministry of Agriculture, Cooperation and Farmers Welfare, New Delhi. Vice Chancellor Dr. K. P. Viswanatha presided over the function. Mr. Vishwajit Mane, Director General, MCAER, Pune, Dr. Raviprakash Dani, Former Vice Chancellor, Dr. PDKV, Akola, Mr. Prataprao Bhosale, Member, Executive Council, Kamdhenu University, Gandhinagar, Gujarat, Shri. Nathaji Chougule, Member, Executive Council, MPKV, Rahuri, Mrs. Sunita Patil, Member, Executive Council, MPKV, Rahuri, Dr. Ravshan Ismoliv of Uzbekistan, Shri. Shivajirao Jagtap, District Supd. Agril. Officer, Ahmednagar, Dr. V. S. Shirke, Director, Extension and HRD, MCAER, Pune, University Directors Dr. A. L. Pharande and Dr. S. R. Gadakh, Shri. Sopan Kasar, Registrar, Shri. Vijay Kote, Comptroller and Shri. Milind Dhoke, University Engineer were present for the programme.

Live Crop Demonstrations

- Crop demonstrations on over 100 acres were



organized for the benefit of farmers during the KisanAadhar Sammelan-2019. It included demonstrations on cereals, pulses, oilseeds, forage, vegetables, flowers and cash crops. In all demonstrations of 56 crops and 145 varieties were planted in the cafeteria. In addition demonstrations on advanced irrigation methods, mole plough, soil testing, vermiculture, cultivation of dragon fruit, vegetable and flower cultivation in shadenet, apiculture, integrated pest management, biocontrol were also organized on this occasion. Major attraction of this event was the Integrated Farming System model on farmers field of Shri. Adsure brothers.

Agriculture and Animal Exhibition

- An Agriculture and Animal Exhibition was organized during the KisanAadhar Sammelan-2019. The university technologies were showcased in this exhibition. This included agriculture inputs, improved agriculture implements, processing, subsidiary occupations, medicinal and aromatic plants, publications etc. The animal component included indigenous and improved breeds of cattle, goat, sheep, poultry and dogs. The Government schemes of Department of Agriculture, ATMA, Zilla Parishad, ICAR Farmers FIRST programme were exhibited in the event. Many farmers and farm women visited the KisanAadhar Sammelan-2019.

Kharif Technology Day at AC, Pune

- The Kharif Technology Day was organized at College of Agriculture, Pune on October 15, 2019. Dr. Vijay Bhatkar, Chancellor, Nalanda University and Inventor of Param Computer inaugurated the event. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. Shri. SuhasDivse, Commissioner, Agriculture, M. S., Shri. PratapraoBhosale, Member, Executive

Council, Kamdhenu University, Gandhinagar, Dr. K. V. Prasad, Member, Executive Council, MPKV, Rahuri and Director, Directorate of Floriculture, Pune, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. V. S. Shirke, Director of Extension and HRD, MCAER, Pune, Associate Deans Dr. P. M. Rasal and Dr. D. D. Pawar, Dr. S. D. Masalkar, Principal, CoH, Pune, Dr. V. S. Supe, Associate Director of Research, Ganeshkhind and Dr. ShivajiGurav, Deputy Registrar, PPV & FRA, Pune division were present on the dais. Various crop demonstrations were organized on the college farm for the farmers.

Agriculture Technology Day at AC, Dhule

- The Agriculture Technology Day was jointly organized by College of Agriculture, Regional Extension Centre and KrishiVigyan Kendra, Dhule on October 31, 2019 in coordination with Department of Agriculture and ATMA, Dhule. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. PankajMahale, Member, Executive Council, Dr. A. M. Musmade, Associate Dean, Shri. MilindDhoke, University Engineer, Shri. VivekSonawane, District Suptd. Agril. Officer, Dhule were present for the programme. An Agriculture Exhibition was organized on this occasion. University scientists guided the farmers.

MOU signed between MPKV and Reliance Foundation

- A Memorandum of Understanding (MoU) was signed between MPKV, Rahuri and Reliance Foundation on December 18, 2019. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Dr. K. D. Kokate, Former Director of Extension Education,



Shri. SopanKasar, Registrar, Shri. Vijay Kote, Comptroller, Shri. SachinMardikar, Chief Finance Officer, Reliance Foundation were present on this occasion. At the outset, Shri. Deepak Kekan, Head, Information Services, Reliance Foundation gave a presentation on the information services of the company. The MoU would help to transfer the university developed technologies to the farmers through mobile advisory. Dr. Gadakh and Shri. Mardikar signed the MOU.

- Farm Mechanization Day was celebrated at the Zonal Agricultural Research Station, Solapur in co-ordination with the ICAR's AICRP on Farm Implements and Machinery Research Project, MPKV, Rahuri, Department of Agriculture, M. S., ATMA, Solapur, KVK, Mohol and KVK, Solapur on February 14, 2020. Vice Chancellor Dr. K.P. Viswanatha inaugurated the event. IDr. V. M. Mayande, former Vice Chancellor, Dr. PDKV, Akola was the Chief Guest. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T also guided the farmers on this occasion. Various demonstrations of farm implements were organized at Mulegaon farm. Booklets on farm mechanization were released during the programme.
- AFarmers-Scientists Interface cum Workshop was organized by CAAST-CSAWM, MPKV, Rahuri in association with Indian Society of Agricultural Engineering (ISAE) at Sub-Campus, College of Agriculture, Pune. The programme was inaugurated by Dr. Indra Mani, President, ISAE. Dr. Ushamani P., Deputy General Manager, NABARD, Mr. Ajay Dhalpawar, Assistant General Manager, Technical Training, NETAFIM Irrigation Pvt. Ltd, Pune, Mr. Venkatesh Shete, Project Manager, Lupin Foundation, Pune in presence of Er. SachinKamble, Assistant General Manager, NABARD, Dr. R. D. Bansod, Head, Agril. Engg., Dr. S. D. Gorantiwar, Head, Agril. Engg., MPKV, Rahuri, Organizing Secretary ISAE Convention and PI, CAAST-CSAWM, MPKV, Rahuri. This programme included field visits to Hi-Tech Agricultural Park, mushroom production project, horticulture and Watershed Park during morning session and training cum interactive sessions by various dignitaries on water management, improved farm machineries, Digital irrigation, Plant Protection, mobile marketing, Irrigation mobile apps and Watershed Management. This programme was attended by about 100 farmers from 6 villages.
- The Agricultural Mechanization Day was observed on February 17, 2018 by KVK, Dhule, Borgaon, Satara and Mamurabad Farm, Jalgaon. On this occasion experts guided the farmer participants on various aspects of agricultural mechanization. The large number of farmers participated in the programme.
- A training programme on Medicinal and Aromatic plants was organized by the Medicinal and Aromatic Plants Research Project, MPKV, Rahuri in coordination with the Directorate of Arecanut and Spices Development Board, Calicut (Kerala) on February 20, 2020. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. More than 70 farmers and farm women participated in the training programme.
- The National Mushroom Day and a training programme on Mushroom Production was organized on January 4, 2020 by All India Coordinated Mushroom Research Project, AC, Pune. Associate Dean Dr. P. N. Rasal inaugurated the event. Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. V. S. Supe, Associate



Director of Research, NARP, Ganeshkhind, Dr. Anil Gaikwad, Incharge, AICRP on Mushroom were present for the programme. An exhibition of mushroom products was also organized. About 127 trainees were participated in the programme.

Parthenium Awareness Week Celebrated at Krishi Vigyan Kendras (16/08/2019 to 22/08/2019)

- As per the directives from Directorate of Weed Science Research, Jabalpur (M.P.), Krishi Vigyan Kendras under jurisdiction of MPKV, Rahuri organized Parthenium Awareness Programme at different Villages during August 16-22, 2019. The object of celebrating the programme was to create awareness among the farmers and general public about parthenium which is responsible for causing health related problems like pernicious, allergies, poisonous, greatest source of dermatitis, asthma, nasal-dermal and nasal-bronchial types of diseases. Parthenium is also harmful to farm animals as far as their health is concerned.

Fertilizer Application Awareness Programme at Krishi Vigyan Kendras

- The Fertilizer Application Awareness Programme was organized during October, 2019 by Krishi Vigyan Kendras under jurisdiction of MPKV, Rahuri. The main focus of this programme was to make farmers more aware regarding soil testing and use of appropriate fertilizers as per soil health card. To give information regarding new types of fertilizers present in market, and use of Integrated Nutrient Management in order to keep soil healthy

and productive.

- The World Soil Day was observed in the jurisdiction of MPKV, Rahuri on December 05, 2019. The KVK,s, RECs and DEC's were conducted various programmes and distributed soil health cards to the farmer participants. The University authority participated and guided the participants.
- The Mahila was observed in the jurisdiction of MPKV, Rahuri on December 05, 2019. The KVK,s, RECs and DEC's were conducted various programmes and distributed soil health cards to the farmer participants. The University authority participated and guided the participants.
- The Regional Extension Centres, District Extension Centers and KrishiVigyan Kendra had participated in the 'Swachh Bharat Abhiyan' and organized cleaning campaign in their respective areas during 2nd October 2019.
- The Monthly District Workshops were jointly organized by the MPKV, Rahuri and Dept. of Agriculture M.S. in the jurisdiction of MPKV, Rahuri during 2019-20. The university scientists guided the officials from the line department. The field visits were also organized on the demonstration farms.
- The diagnostic and surveillance team visits were organized by scientists from Regional and District Extension Centers and KrishiVigyanKendras on farmer's field. These visits were jointly organized in collaboration with the Department of Agriculture (M.S.).



Extension Education Activities (2019-20)

Sr. No.	Activity	(2019-20)	
		No. of activities	Participant
1	Training Programmes organized		
i.	For farmers, farm women and youth	346	18791
ii.	For staff of development department (State AgrilDept and others)	136	8804
iii.	Interaction training programme between farmers and scientists	151	5129
2	Workshop, seminars participated		
i.	Monthly district workshops	61	1758
ii	Seminars/Conference	19	996
iii	Zonal workshops (ZAREAC) Kharif, <i>Rabi</i> and Summer	02	340
iv.	Farmer Scientists Forum meetings organized	39	1285
3	Demonstrations and farm trials		
i.	Method demonstrations	238	4506
ii.	Result demonstrations / Assessment Trials (OFTs)	285	285
iii.	Assessment Trials	60	60
iv.	Front line demonstrations & Adaptive trials	1371	1371
4	Other extension education programmes		
i.	Meeting and group discussion (KisanGoshti etc.)	306	9631
ii.	Field visit/shivarpheries	364	5449
iii.	Field days	23	1044
iv.	Farm and home visits	1045	3280
v.	Farmers rallies organized	85	mass
vi.	Agril. Exhibition organized/ participated	62	mass
	Kisan Aadhar Sammelan - 2019	01	mass
	Agro Technology Day and Exhibition at AC, Dhule	01	mass
	Kharif Technology Day at AC, Pune	01	mass
vii	Diagnostic team visit	237	2224



vii.	Surveillance team visit	99	1009
viii.	Lecture by univ. Scientists in diff. Extn. Programme organized by Agril. Dept. NGOs.	413	25852
5	No. of persons visited		
i.	Farmers	-	83431
ii.	Students	-	26176
iii.	Trainees	-	8621
iv.	Officers	-	2446
6	Media Coverage		Mass
i	Programme News	1379	Mass
ii	AIR Programmes	304	Mass
iii	TV Programmes	54	Mass
iv	University Programmes	150	Mass
7	Other Extension Activities		
i.	Agro Advisories (Telephone, SMS etc.)	1311	244139
ii.	No. of water samples tested	319	319
iii.	No. of soil samples tested & Soil Health Card Issued	3599	3599
iv.	No. of pests samples tested	205	205
v.	No. of diseases samples tested	404	404
vi.	Help line/Telephone Calls attended	18260	18260



5. Major Events

April, 2019

1. Brainstorming Workshop organized on Bamboo Plantation



April 30, 2019. A brainstorming workshop on Bamboo Plantation was organized at MPKV, Rahuri. Vice Chancellor Dr. K.P. Viswanatha presided over the programme. Dr. N. Barathi, Director, Growmore Biotech Ltd., Hosur, Tamilnadu was the Chief Guest for the workshop. Dr. A. C. Lakshmana, IFS (Retd.), Former Secretary, Govt. of Karnataka, Dr. Harihar Kausadikar, Director of Research, MCAER, Pune, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, MPKV, Rahuri, Dr. D. D. Pawar, Associate Dean, DrASCAE&T, Heads of Department Dr. D. B. Yadav, Dr. R. W. Bhaud and Dr. A. V. Solanke, Dr. V. M. Illorkar, Scientist, AICRP on Agroforestry, College of Agriculture, Nagpur, Dr. A. D. Rane, Asso. Prof., DBSKKV, Dapoli, Dr. Hemant Bedekar, Bamboo Society of India, Pune, Shri. Saied Salim Ahmed, Forest Officer, Mrs. Kirti Jamdhade, Deputy Conservator of Forest, Ahmednagar were present on this occasion. Vice Chancellor Dr. Viswanatha in his presidential address informed that the Govt. of Maharashtra has sanctioned a Bamboo start up to MPKV for research and training. Bamboo could be the most utilized plant both for energy and electricity. It has great potential and need to be promoted commercially. Dr.

N. Barathi in his chief guest address said that bamboo is grown on 13.9 mill. ha. in the country. Bamboo is the fastest growing plant with 1.5 ft/day growth. Many products are been prepared from bamboo. The Beema bamboo is commercially viable for the farmers. SAUs need to undertake research on bamboo, he said. Dr. Lakshmana in his keynote address said that India has the largest area under bamboo in the world. It is a high potential plant and best suited for Silvi-Hort. cropping system. Dr. Bedekar, Shri. Ahmed, progressive farmers Shri. Rajshekhar Patil and Shri. Sanjeev Karpe shared their experiences on bamboo. Scientists and staff, students participated in the workshop.

2. Bharat Ratna Dr. B. R. Ambedkar Jayanti celebrated



April 14, 2019. The Birth Anniversary of Bharat Ratna Dr. B. R. Ambedkar was celebrated in the university. Prof. Prakash Pawar of Fergusson College, Pune was the Chief Guest for the programme. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. In his speech Prof. Pawar said that Dr. Ambedkar valued humanity amongst all aspects. He fought for social equality. Dr. Viswanatha in his presidential address said that Dr. Ambedkar has preached the lessons of humanity through his life and efforts. His teaching is most needed in today's world for love and brotherhood of all religions. Heads of Departments, staff and students were present on this occasion.

3. Mahatma Phule Jayanti celebrated



April 11, 2019. The Mahatma Phule Jayanti was celebrated in the university. Noted author Prof. Devidas Phulari from Nanded was the chief guest on this occasion. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, Registrar Shri. Sopan Kasar, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. V. D. Shende, Nodal Officer, Halgaon college, Dr. Mahaveer Chauhan, Student Welfare Officer, Prof. D. M. Gaikwad, Sports Officer were present on the dais. In his address Prof. Phulari brought to light the significant events of Mahatma's life. Humanity is the religion was Jyotiba's teaching, he said. In his presidential address Vice Chancellor Dr. Viswanatha said that we are celebrating the 192nd birth anniversary of Mahatma Phule. He along with Savitribai Phule revolutionized the social system and class differences in the society. The Heads of Departments, staff and students were present on this occasion. Dr. Mahaveer Chauhan, Student Welfare Officer expressed thanks.

4. MPKV and Central Institute for Research on Cattle signed MOU

April 15, 2019. The Mahatma Phule Krishi Vidyapeeth, Rahuri and Central Institute for Research on Cattle, Meerut signed the Memorandum of



Understanding for Education, Research and Extension at College of Agriculture, Pune. Vice Chancellor Dr. K.P. Viswanatha, Dr. Nitin Patil, Director, Central Institute for Research on Cattle, Meerut, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. Y. G. Fulpagare, Head, Department of Animal Science and Dairy Science, MPKV, Rahuri, Dr. Shivaji Pachpute, Professor of Animal Science and Dairy Science were present on this occasion. This agreement will be helpful in development of education, research and extension activities related to indigenous cattle breed conservation and transfer of cattle research to the dairy owners.

5. MOU signed between MPKV and Mukul Madhav Foundation



April 22, 2019. A Memorandum of Understanding was signed between Mahatma Phule Krishi Vidyapeeth,

Rahuri and Mukul Madhav Foundation at College of Agriculture, Pune to encourage agricultural education and to provide financial support to the students from economically weaker farmers' families for undertaking agricultural education. Under this agreement, total 59 students doing their graduation, post graduation and Ph. D. in Agriculture in the colleges affiliated with Mahatma Phule Krishi Vidyapeeth will be provided Shrimati Mohini Prahlad Chhabria scholarship of Rs. 50,000/- per student per year by Mukul Madhav Foundation and Finolex Industries Limited. Vice Chancellor Dr. K.P. Viswanatha, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Smt. Ritu Chhabria, Director, Finolex Industries Limited and Managing Trustee of Mukul Madhav Foundation, Shri. Devang Trivedi, Secretary, Finolex Industries Limited, Shri. Bablu Mokale, CSR Executive Member, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. S. D. Masalkar, Principal, College of Horticulture, Pune were present on this occasion. In addition financial assistance in the form of agricultural inputs and agricultural technology will be provided to conduct farmers' need based demonstrations in the villages selected under Rural Agricultural Work Experience (RAWE) Programme by the foundation.

6. MOU signed between AC, Pune and Nehru Science Centre, Mumbai

April 12, 2019. A Memorandum of Understanding (MOU) was signed between the College of Agriculture, Pune and Nehru Science Centre, Mumbai for setting up an Agricultural Science Museum at the historical building of Agriculture College. Shri. S. M. Khened, Director, Nehru Science Centre, Mumbai, Shri. Umeshkumar Rustogi, Museum Incharge, Shri. Mohan Sahu, Exhibition Officer, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. S. D. Masalkar,

Principal, College of Horticulture, Pune, Dr. Vedshree Patil, Nodal Officer, Agriculture Science Museum and Heads of Sections were present on this occasion. Under this agreement, the plan for setting up the museum will be prepared by the Nehru Science Centre, Mumbai.

7. Software guiding 100 t/acre ratoon sugarcane production launched



April 10, 2019. A software system for providing guidance on production of 100 tonne ratoon sugarcane per acre based on soil analysis was inaugurated at the hands of Vice Chancellor Dr. K.P. Viswanatha at College of Agriculture, Pune. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. Ramchandra Nazirkar, Professor of Soil Science and Agricultural Chemistry were present for the programme. Computer experts Shri. Ajay Bharde and Shri. Anand Ingale have developed this software.

8. Annual Prize Distribution programme of PGI held

April 12, 2019. The Annual Prize Distribution programme of Post Graduate Institute, MPKV, Rahuri was organized under the chairmanship of Dr. A. L. Pharande, Dean, Faculty of Agriculture. Noted comedy poet Shri. Mirza Beg was the Chief Guest for the programme. Dr. S. R. Gadakh, Director of Research, Shri. Sopan Kasar, Registrar, Dr. P. A. Turbatmath,



Associate Dean, PGI, Dr. S. A. Ranpise, Associate Dean, LAE, Dr. R. M. Naik, Vice President, Student Council, Dr. Mahaveer Chauhan, Student Welfare Officer, Dr. R. J. Desale, Student Welfare Officer, PGI, Shri. Rajendra Bhujbal, Assistant Registrar, PGI, Dr. Abhijit Nalawade, PTI, Miss. Aarti Boraste, Sabhapati, Student Council, Miss. Rutuja Shinde, Secretary, Sports Committee and Miss. Priyanka Jagtap, Secretary, Prize distribution were present on the dais. The publication *Krishigandh* was released during the programme. Miss. Rutuja Shinde and Mr. Padmakumar Patil were adjudged and felicitated with the Best M. Sc. (Agri.) and Ph. D. students, respectively. Various prizes were awarded to the students. The staff and students were present for the programme.

9. Stakeholder Workshop on Agro climatic networking organized



April 9, 2019. A Stakeholder Workshop on Agro climatic networking was organized by CAAST-

CSAWM, MPKV, Rahuri in co-ordination with NABARD and BAIF at Shenit village of Akole taluka of Ahmednagar district. Dr. S. R. Gadakh, Director of Research and Director of Extension Education, MPKV, Rahuri presided over the programme. In his address Dr. Gadakh briefed about the role of MPKV in agriculture development and informed about the research contribution of the university. Dr. K. D. Kokate, Former Director of Extension Education gave a valuable guidance on successful agriculture production related to climate, soil, marketing and significance of water in crop production. Shri. Sachin Kamble, AGM, NABARD, Pune narrated about NABARD initiatives viz., watershed development project, soil and water conservation and women self help groups. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM explained about climate change and its impact on crop production. Dr. R. P. Andhale, Associate Professor of Agronomy gave information regarding role of agro advisory and dissemination of agro advisory services for farmers at district level through *Gramin Krishi Mausam Sewa*. Shri. V. B. Dyasa, CPE, BISLD, Nashik, Dr. M. B. Dhadwad, Asstt. Professor, Shri. P.B. Gosavi, TAO, Akole, Shri. S.M. Wagle, ACPE, BISLD, Nashik, Shri. P.S. Khose, Jt. ACPE, BISLD, Nashik, Shri. Somnath Chaudhary, Programme Manager, BISLD, Nashik, Shri. Ramnath Navale, Project leader, Climate proofing, BISLD, Nashik and villagers were present for the programme.

10. NCC cadets of AC, Pune achieved grand success in Annual Training Camp

April 9, 2019. Annual training camp of National Cadet Corps was organized at Pune Battalion headquarter. Cadets of Pune Agriculture College won the first prize with grand success in different competitions held during the camp which included platoon drill,





best cadet, best senior under officer, volleyball, tug of war, essay competition, communication skills, cultural programmes and pilot drama. The successful cadets were felicitated at the hands of Col. Bilawaria. Different military trainings and lectures were organized for the cadets. Dr. P. N. Rasal, Associate Dean of Agriculture College and Dr. S. D. Masalkar, Principal of Horticulture College congratulated the cadets for their grand success. The cadets received guidance from Major Prof. Ram Choudhary.

May, 2019

11. Joint AGRESCO - 2019 meeting organized



May 29-31, 2019. The 47th Joint AGRESCO-2019 meeting of four State Agricultural Universities of Maharashtra was organized at MPKV, Rahuri in coordination with the Maharashtra Council of Agriculture Education and Research (MCAER), Pune. Shri. Chandrakant (Dada) Patil, Hon'ble Minister of

Agriculture, Revenue, M.S. and Pro Chancellor of SAUs was the Chief Guest for the concluding session. Dr. K. P. Viswanatha Vice Chancellor, MPKV, Rahuri, Vice Chancellors of SAUs Dr. V. M. Bhale (Akola), Dr. A. S. Dhawan (Parbhani), Dr. S. D. Sawant (Dapoli), Shri. Eknath Davale, Principle Secretary, Agriculture, M.S., Shri. Mahendra Warbhuvan, DG, MCAER, Pune, Directors of MCAER Dr. Kausadikar and Dr. Shirke, Directors of SAUs Dr. Pharande, Dr. Gadakh, Dr. Waskar, Dr. Kharche, Dr. Haldankar, Dr. Ingole, Dr. Bhawe, Dr. Patil, Dr. Narkhede, Dr. Mankar, Shri. Sopan Kasar, Registrar and Shri. Vijay Kote, Comptroller were present on the dais. Several varieties and recommendations were released in the Joint AGRESCO through the group deliberations. Shri. Patil inaugurated the agriculture exhibition organized on this occasion. Directors, Associate Deans, Heads of Departments, Associate Directors of Research, Crop Specialists, Breeders, scientists, staff and farmers attended the programme.

Earlier the Joint AGRESCO-2019 meeting was inaugurated in presence of all Vice Chancellors of SAUs, Directors of MCAER, NRCs and SAUs and scientists. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. A Souvenir was released on this occasion.

In this Joint AGRESCO MPKV, Rahuri released eight varieties, forty seven recommendations, one agricultural implement and five plant biotic and abiotic stress regitant sources.

12. Maharashtra Day celebrated

May 1, 2019. The university celebrated the 59th Maharashtra Day and International Labour Day at Central Campus, MPKV, Rahuri. The flag hoisting was done at the auspicious hands of Vice Chancellor Dr.



K.P. Viswanatha. On this occasion Dr. Viswanatha said that the Maharashtra state has a rich history, tradition and leaders like Yeshwantrao Chavan contributed to its development in the earlier phase. The state has significantly contributed to the nation's development. Dr. N. Barathi, Director, Growmore Biotech Ltd., Hosur, Tamilnadu, Dr. A. C. Lakshmana, IFS (Retd.), Former Secretary, Govt. of Karnataka, Dr. K. V. Laxmanmurthy, Retd. IFS, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Sopan Kasar, Registrar, Shri. Vijay Kote, Comptroller, Shri. Milind Dhoke, University Engineer, Associate Deans Dr. P. A. Turbatmath, Dr. D. D. Pawar, Dr. S. A. Ranpise, Heads of Department, university scientists, staff and students were present in large number.

13. Regional prekharif training programme organized



May 2, 2019. A Regional prekharif training programme for Pune division was organized in the university in coordination with the State Department of Agriculture, M.S. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. Shri. Suhas Divse, Commissioner, Agriculture, M. S. was the chief guest. Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Vijaykumar Ghawate, Director, extension and Training, Shri. Vijaykumar Ingle, Director, Quality Control and Inputs, Dr. P. N. Pokle, Director, Horticulture, Shri. Kailas Mote, Director, ATMA, Shri. Dilip Zhende, JDA, Pune and Shri. Vilas Nalage, DSAO, Ahmednagar were present on the dais. University scientists guided the officers of Agriculture Department during the one day training programme.

14. DG, MCAER, Pune visited MPKV, Rahuri and ICAR Farmer FIRST prog.

May 13-14, 2019. Shri. Mahendra Warbhuwan (IAS), Director General, Maharashtra Council of Agriculture Education and Research (MCAER), Pune visited MPKV, Rahuri. Vice Chancellor Dr. K. P. Viswanatha briefed him about the educational, research and extension education activities of the university. Dr. S. R. Gadakh, Director of Research and Extension Education presented the significant research





accomplishments. Shri. Sopan Kasar, Registrar presented the administrative status, Shri. Vijay Kote, Comptroller presented the financial status, Shri. Milind Dhoke, University Engineer presented the development works and Dr. P. A. Turbatmath, Associate Dean, PGI presented the education activities. Dr. Harihar Kausadikar, Director, Education and Research and Dr. V. S. Shirke, Director, Extension of MCAER, Pune participated in the discussion. They visited the various research projects at CC, Rahuri.



May 14, 2019. Shri. Warbhuvan, DG, MCAER, Pune along with Dr. S. R. Gadakh, Director of Research, MPKV, Rahuri, Registrar Shri. Sopan Kasar and Directors of MCAER Dr. Kausadikar and Dr. Shirke visited the Chinchvhiire village where the integrated farming system model is being implemented under the ICAR Farmer FIRST programme. Dr. P. B. Kharde, PI, ICAR FFP briefed them about the project and activities implemented. They visited the Dal mill operated by the women Self Help Group. Further, they visited the

bajra, tur crop demonstrations, backyard poultry, goat and cattle farm of participant farmer Shri. Anil Nalkar and pomegranate orchard of participant farmer Shri. Machindra Shete. Finally they had interactions with the ICAR FFP participant farmers.

15. Training on Python programming in Climate Smart Agriculture organized



May 4-5, 2019. A two day training program on Python programming in climate smart agriculture was organized by the Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM) project, MPKV, Rahuri. The training programme was inaugurated by Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, MPKV, Rahuri. Dr. S. D. Gorantiwar, PI, CAAST, CoPIs Dr. M. G. Shinde, Dr. A. A. Atre, Dr. Sachin Nalawade, Dr. B. K. Gavit and Er. Gajanan Kothawade, Data Scientist, Quantela Inc., Bangalore (India) were present. Trainees participated in this programme.

16. Exposure visit to Vaishnavdham (Buchkewadi) village organized under CAAST project

May 6, 2019. The CAAST-CSAWM, MPKV, Rahuri had organized a visit on Agro climatic networking at Vaishnavdham (Buchkewadi) village,



Tal. Junner, Dist. Pune. On this occasion NABARD's Deputy Manager Dr. Ushamani, Assistant Manager Mr. Sachin Kamble, Mr. Nilesh Jondhale, Shri. Venkatesh Shete, Lupin Foundation, Mr. Chakradhar Borkute, Director of e-innovation technologies Pvt. Ltd, Dr. S. D. Gorantiwar, Principal Investigator, CAAST project, Co-PIs Dr. M.G. Shinde, Dr. A. A. Atre, Dr. S. A. Kadam, *Sarpanch, Upsarapanch*, all the Grampanchayat members, villagers, farmers and ten Research Associates from CAAST-CSAWM project were present. During the exposure visit officers of NABARD and Lupine, progressive farmers and scientists from MPKV, Rahuri visited the farm pond, cropping system, crop varieties, horticulture field, poultry, dairy, fisheries, organic fertilizer project and vermi composting project at Buchkewadi village.

June 2019

17. Zonal Agricultural Interface for kharif organized

June 19, 2019. The Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for kharif-2019 was organized by MPKV, Rahuri in co-ordination with the State Department of Agriculture at the meeting hall of Commissionerate of Animal Husbandary, Pune. Vice Chancellor Dr. K. P. Viswanatha presided over the meeting, while, Shri. Suhas Divse, Commissioner (Agriculture),



M. S. was the Chief Guest. Dr. S. R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri, Shri. Vijaykumar Ghawate, Director, Inputs and Quality Control, M.S., Dr. Shisode, Director, Extension and Training, M.S., Dr. Prahlad Pogle, Director, Horticulture, M.S., Dr. Lakhan Singh, Director, ICAR-ATARI, Pune, Shri. Dilip Zhende, JDA, Pune and Dr. V. S. Supe, Associate Director of Research, NARP, Pune were present on the dais. The university publication Shri Sugi, Kharif-2019 was released on this occasion. Heads of Departments, Joint Directors of Agriculture, 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.

18. International Yoga Day celebrated



June 21, 2019. The International Yoga Day was celebrated at MPKV, Rahuri and all campuses of





university jurisdiction. Dr. Pravin Deshpande, Director, *Arogyadham Nisargaupchar* and Yoga Centre, Nasik was the chief guest for the programme organized in the university. Vice Chancellor Dr. K.P. Viswanatha presided over the programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Heads of Departments Dr. D. B. Yadav, Dr. M. C. Ahire, Dr. T. K. Narute, Dr. C. S. Patil, Dr. Mahaveersing Chauhan, Student Welfare Officer, Prof. D. M. Gaikwad, Sports Officer and Prof. Jitendra Metkar, Administrative Officer, Savitribai Phule School were present on the dais. Certificates were awarded to the staff and students who completed the yoga class. In the morning hours yoga was practiced by the staff and students organized on university sports ground.

19. Training on ICT for Effective Knowledge and Extension delivery for Climate Smart Agriculture and Water Management Technologies organized under CAAST project

June 11-12, 2019. A training programme on ICT for effective knowledge and extension delivery for climate smart agriculture and water management technologies was organized by CAAST-CSAWM project, MPKV, Rahuri. In his inaugural address Dr. A. L. Pharande, Dean, Faculty of Agriculture briefed



about the importance of the ICT in agriculture sector and rural development with its instantaneous use to reach the unreached. Dr. S. D. Goarantiwar, Principal Investigator, CAAST-CSAWM project explained the various ongoing activities of the project. Dr. M. C. Ahire, Head, Dept. of Extension Education and Training Organizing secretary, CAAST-CSAWM in his introductory remarks briefed about the objectives of training. Dr. Shridhar Patil, Assistant Professor cum Junior Scientist, BAU, Sabour, Dr. M. B. Dhadwad, Assistant Professor, MPKV, Rahuri, Shri. Bhushan Kulkarni, Knowledge Bridge, Ahmednagar and trainees were present for the programme as Guest Lecturers.

20. Training on Hyperspectral Remote Sensing and Spectroradiometry Instruments role in Climate Smart Agriculture Development organized



June 14-15, 2019. A training programme on Hyperspectral remote sensing and spectroradiometry

instruments role in climate smart agriculture development was organized by CAAST-CSAWM project at MPKV, Rahuri. In his inaugural address Dr. A. L. Pharande, Dean, Faculty of Agriculture explained the importance of the hyperspectral remote sensing and spectroradiometer instruments role in climate smart agriculture development. Dr. S. D. Goarantiwar, Principal Investigator, CAAST-CSAWM project expressed the need of the training programme and also emphasized the benefits of the hyperspectral remote sensing application in precision agriculture. Dr. D. D. Pawar, Associate Dean, Dr.ASCAE&T, MPKV, Rahuri, Dr. Vijay Bhagat, Associate Professor, Department of Geography, Agasti Arts, Commerce and Dadasaheb Rupwate Science College, Akole, District. Ahmednagar, Dr. Amol Vibhute, Assistant Professor, School of Computational Sciences, Punyashlok Ahilyadevi Holkar Solapur University, Solapur guided the participants.

21. Workshop on Developing Village Level contingency Crop Plans for Akole Block organized



June 20-21, 2019. A two day workshop on developing village level contingency crop plans for Akole block was organized by CAAST-CSAWM project at MPKV, Rahuri. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the workshop and briefed the importance of the village

level contingency crop plans at micro level for farmers. Dr. K. A. Gopinath, Principal Scientist(Agronomy), CRIDA, Hyderabad explained about the role of CRIDA in development of District level and Block level contingency crop plans and need of development of village level contingency crop plans. Dr. R. P. Andhale, Associate Professor of Agronomy and workshop Organizing Secretary introduced the dignitaries and delegates of the workshop. Dr. Sachin Kamble, AGM, NABARD, Pune, Dr. M. G. Shinde, Co-PI, Dr. P. S. Bodake, Chief Scientist and Account and Finance Officer, CAAST-CSAWM project, Dr. N. V. Kashid, Officer Incharge, ARS, Vadgaon Maval, Dr. S. S. Kaushik, Head, KVK, Dahigaone, Dr. J. R. Kulkarni, Ex. Advisor, IITM, Pune, Dr. J. D. Jadhav, HOD, Agril. Met. COA, Pune, Dr. K. K. Dakhore, Agrometeorologist, VNMKV, Parbhani, Dr. B. V. Asewar, Chief Scientist, AICRP on Dry Land Agriculture, VNMKV, Parbhani, Dr. Rajeshree Joshi, CTPE, BAIF, Pune, farmers and students were present on this occasion.

22. Training programme on bajra and red gram production technology organized under ICAR Farmer FIRST prog.



June 15, 2019. A training programme on bajra and red gram production technology was organized under ICAR Farmer FIRST prog. at Chinchvhihri village. At the outset Dr. P. B. Kharde, PI, ICAR FFP



welcomed the scientists and participant farmers for the training programme. Dr. N. S. Kute, Senior Scientist, Pulses Improvement Project, MPKV, Rahuri in his guidance emphasized on the technologies for red gram crop including the varietal features. Prof. Changdev Wayal, Entomologist guided on the integrated pest management of bajra and red gram crops. Dr. Nitin Ugale, Junior Scientist briefed on the bajra production technology. Seed of bajra and red gram were distributed to the farmers. More than forty farmers and women participated in the one day training programme. Visit of scientists was also organized to ICAR FFP participant farmers field.

July 2019

23. Vanmahotsav and Krishi Din celebrated



July 8, 2019. *Vanmahotsav* and *Krishi Din* programme was organized at the Mahatma Phule Krishi Vidyapeeth, Rahuri to celebrate the birth anniversary of former Chief Minister of Maharashtra late Vasant Naik. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri presided over the function. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Fasiuddin Shaikh, Tahsildar, Rahuri, Shri. Milind Dhole, University Engineer, Associate Deans Dr. P. A. Turbatmath, Dr. S. A. Ranpise, Dr. V. D. Shende, Nodal Officer, Punyashlok Ahilyadevi Holkar College

of Agriculture, Halgaon and Shri. Devkhile, Deputy Conservator of Forest, Ahmednagar were present on the dais. Later after this programme tree plantation was done at various sites in presence of Shri. Rahul Dviwedi, District Collector, Ahmednagar, Shri. Adarsha Reddy, District Conservator of Forests, Ahmednagar and Mrs. Kirti Jamdhade, District Forest Officer, Ahmednagar. The university staff and students planted trees at the central campus. These include neem, jamun, mango, bamboo, karanj, aonla, hirda, behada, kagzi lime and various medicinal and forest plants.

24. Ranking of SAUs: MPKV ranked 24th in the country and 1st in Maharashtra

July 18, 2019. The Mahatma Phule Krishi Vidyapeeth, Rahuri has been ranked at the 24th position in the country and ranked first position in Maharashtra as per the rankings of sixty SAUs declared by the ICAR, New Delhi for the year 2018. Earlier in 2017, MPKV, Rahuri was ranked at 34th position in the country. The university's efforts in quality education, research and extension education activities for the past year under the leadership of Vice Chancellor Dr. K. P. Viswanatha ably supported by Dr. A. L. Pharande, Dean, Faculty of Agriculture and Dr. S. R. Gadakh, Director of Research and Extension Education resulted in elevating this ranking ladder by ten positions. There was valuable contribution from the Registrar Shri. Sopan Kasar, Comptroller Shri. Vijay Kote, University Engineer Shri. Milind Dhole and Nodal Officer for ICAR Dr. Milind Ahire in preparation of the Ranking Report of the university. The other SAUs of the state include DrBSKKV, Dapoli ranked at 32nd position, VNMAU, Parbhani at 45th position and DrPDKV, Akola ranked at 48th position in the country. Vice Chancellor Dr. K. P. Viswanatha acknowledged the efforts of all officers, scientists, staff and students for this achievement and hoped for future improvement in the ranking.

25. Statelevel meeting on Zero Budget Agriculture organized at Pune



July 13, 2019. A one day statelevel meeting on the concept of Zero Budget Agriculture as proposed by the Central Government was organized at College of Horticulture, Pune. Vice Chancellor Dr. K. P. Viswanatha presided over the meeting. Vice Chancellors of SAUs Dr. V. M. Bhale (DrPDKV, Akola), Dr. A. S. Dhavan (VNMAU, Parbhani) and Dr. S. D. Sawant (DrBSKKV, Dapoli) alongwith Dr. M. C. Varshney, Former Vice Chancellor, AAU, Anand and Kamdhenu University, Gandhinagar, Prof. Nathaji Chaugule, Member, Executive Council, Directors of all SAUs, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. S. D. Masalkar, Principal, College of Horticulture, Pune and progressive farmers of the state were present for the meeting. The Vice Chancellors of SAUs, Directors and progressive farmers took part in the discussion.

26. Workshop on Soil Health and Land Use Planning for Climate Smart Agriculture organized under CAAST project

July 4-5, 2019. A workshop on Soil Health and Land Use Planning for Climate Smart Agriculture was organized by the CAAST-CSAWM project at MPKV, Rahuri. Dr. V. S. Tomar, Vice Chancellor, JNKVV, Jabalpur was the Chief Guest for the function.



Vice Chancellor Dr. K. P. Viswanatha presided the programme. Dr. S. K. Chaudhary, Assistant Director General (S&WM), ICAR, New Delhi, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. P. A. Turbatmath, Associate Dean, PGI, Dr. S. A. Ranpise, Associate Dean, LAE, Dr. S. D. Gorantiwar, PI, CAAST-CSAWM, Dr. M. G. Shinde, Co-PI, CAAST-CSAWM were present on this occasion. Heads of Departments, scientists, staff and students were present on this occasion.

27. International Symposium on Strategizing Education and Innovations in Robotics, Drones and IoTs for Climate Smart Agriculture organized



July 23-25, 2019. An International Symposium on Strategizing Education and Innovations in Robotics, Drones and IoTs for Climate Smart Agriculture was organized by CAAST-CSAWM project, MPKV,



Rahuri. Dr. Gajendra Singh, Former Deputy Director General (Engg.), ICAR, New Delhi inaugurated the symposium. The function was presided over by Vice Chancellor Dr. K. P. Viswanatha. Dr. S. D. Goarantiwar, Principal Investigator, CAAST-CSAWM, MPKV, Rahuri gave a preamble on CAAST mentioning importance of Robotics, UAVs, IoTs in CSAWM with special emphasis on capacity building of the faculty, students and farmers. For this symposium distinguished delegates from industry and academic were present. Special guest was Dr. R.C. Agrawal, National Director, NAHEP, ICAR, New Delhi and guest of honor Dr. P.K. Ghosh, National Coordinator, CAAST, NAHEP, New Delhi, Shri. V. C. Rastogi, IAS, Project Director, POCRA, Dr. Prabhat Kumar, convener and Coordinator, CAAST, 2A Component-NAHEP, New Delhi, Dr. V.K. Tewari, Professor, IIT, Kharagpur, Dr. S. R. Gadakh, Director of Research, MPKV, Rahuri, Dr. A. L. Pharande, Dean, Faculty of Agriculture, MPKV, Rahuri were present.

28. Training on Linux Programming organized under CAAST project



July 1-3, 2019. A training programme on Linux programming was organized by CAAST-CSAWM, MPKV, Rahuri. The programme started with the inaugural function chaired by Dr. A.L. Pharande, Dean, Faculty of Agriculture. Dr. S. D. Gorantiwar, PI, Dr. M.G. Shinde, Co-PI, Dr. S. M. Nalawade,

CAAST-CSAWM member, Dr. B. K. Gavit, Assistant Professor, Department of Soil and Water Conservation Engineering and experts were present for the function. Dr. Pharande in his presidential address briefed about the importance of technologies and their applications in developing the climate smart agriculture. Dr. Gorantiwar gave the introductory remarks. Dr. S. K. Dingre, Organizing secretary welcomed and introduced the guest. Er. Prasad Kalane, Er. Suraj Gayke and Er. Nikhil Dhamdhare, Application Engineer, Anubhuti Research and Development Centre, Pune, Er. Tushar Kute, Researcher, MITU Skillologies, Pune and students trainees were present.

29. Training Programme on Vermicompost production and Silage making organized under ICAR Farmer FIRST prog.



July 9, 2019. A Training Programme on Vermicompost production and Silage making was organized at the Integrated Farming System project of MPKV, Rahuri under the ICAR Farmer FIRST programme. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. Dr. Prahlad Pokle, Director, Horticulture, M. S., Dr. A. V. Solanke, Head, Department of Agronomy, Shri. Hasanabade, PD, NHM, Dr. P. B. Kharde, PI, ICAR FFP, Dr. U. S. Surve, Principle Scientist, IFS project were present on the dais. Vermicompost and silage

bags were distributed to the trainees. Fifty participant farmers and farm women of Chinchvihire and Kangar villages participated in this training programme.

30. Visit of Director of Research and Extension Education to ICAR Farmer FIRST villages



July 19, 2019. Dr. S. R. Gadakh, Director of Research and Extension Education, MPKV, Rahuri visited the ICAR Farmer FIRST villages viz., Chinchvihire and Kangar. He visited the PKV Mini Dal Mill unit run by a women Self Help Group in Chinchvihire village. This SHG is engaged in processing of dal. Later on he visited the Integrated Farming System model of participant farmer Shri. Dilip Nalkar. He visited the bajra-*Adishakti* variety and red gram-*Phule Rajeshwari* variety crop demonstration plots and also the dairy unit, goat rearing and backyard poultry. Dr. Gadakh then visited the red gram demonstration of Shri. Bapusaheb Shete and pomegranate orchard (*Bhagwa* variety) of participant farmer Shri. Sunil Walke of Chinchvihire village. Thereafter, he visited the loose housing system of cattle of Shri. Bhaskar Shete, goat rearing unit of Shri. Rajendra Warghude, bajra demonstration and backyard poultry unit of Shri. Raosaheb Gade in Kangar village. Dr. Gadakh interacted with the farmers and gave valuable suggestions. Dr. P. B. Kharde, PI briefed about the project activities. Dr.

Y. G. Fulpagare, Head, Department of Animal Science and Dairy Science also accompanied Dr. Gadakh during the visit. Dr. S. S. Sadaphal, Co-PI proposed thanks.

31. Workshop on Village Level Crop Contingency Plan organized at village Shenit



July 9, 2019. A workshop on village level crop contingency plan was organized at village Shenit, Tal. Akole by CAAST-CSAWM project, MPKV, Rahuri. Dr. R. P. Andhale, Associate Professor presented the MPKV developed crop contingency plan. Dr. N. V. Kashid, Officer Incharge, ARS, Vadgaon Maval guided the farmers about rice crop and its management, Dr. R. D. Nigade guided on finger millet crop management with new varieties, pest management in finger millet, Dr. M. G. Shinde, Co-PI discussed with farmers about water harvesting and water storage, farmpond construction, water management techniques, Dr. V. E. Narwade briefed the livestock diseases management, vaccination schedule, fodder management, silage preparation, milk production, sheep and goat production, poultry management etc. Dr. S. D. Mandakmale informed to the participants about livestock management, artificial insemination, care and maintenance of local breeds. Dr. A. A. Atre, Head, Department of Soil Water and Conservation guided farmers on different soil and water conservation practices, CCT, watershed management, farmponds and importance of tree plantation, Dr. S. S. Kaushik, Senior Scientist, KVK, Dahegaon-ne suggested contingency measures.



32. Exposure visit of ICAR Farmer FIRST prog. organized



July 25, 2019. A one day exposure visit of ICAR Farmer FIRST prog. participant farmers and farm women was organized to KVK, Babhaleshwar and various vermicompost, goat rearing units at Kolhar, Khandala villages of Rahata taluka and Devgad, Punatgaon villages of Newasa taluka. Dr. P. B. Kharde, PI and Co-PIs Dr. A. G. Durgude, Dr. B. A. Deshmukh, Dr. S. S. Sadaphal and Dr. R. G. Nimse participated in the visit and guided the participants. The farmers and scientists first visited the vermicompost unit of young entrepreneur farmer Shri. Sanjay Raut of Kolhar village. Later on they visited the Krishi Vigyan Kendra, Babhaleshwar. The farmers visited the Egg Incubator unit. Thereafter, the team visited a successful goat rearing unit of Shri. Chandrakant Mundhe of Khandala village. The farmers later on visited the silage making unit of Shri. Bapusaheb Pawar of Punatgaon village. Finally the farmers visited a dairy unit and vermicompost unit of Dr. Bhaskar at Devgad village. Thirty participant farmers and farm women from ICAR FFP villages of Chinchvihire and Kangar participated in the exposure visit.

33. Workshop on Protected cultivation technology organized under CAAST project

July 15-19, 2019. A five days Training programme on Protected cultivation technology was organized



by CAAST-CSAWM project, MPKV, Rahuri at Sub Campus, College of Agriculture, Pune. The programme was inaugurated by the organizing secretary Dr. J. S. Pachpute, Co-PI, Sub Campus, CAAST-CSAWM, COA, Pune, Dr. S. B. Shinde, Professor of Agril. Extension presided over the inaugural session, while, Dr. R. K. Agrawal, Dy. Director (NHB), Ministry of Agriculture, New Delhi was the Chief Guest. Dr. J. S. Pachpute gave a preamble on CAAST mentioning importance of Protected cultivation technology with special emphasis on capacity building of the faculty, students and farmers. Total forty participants including students and faculty participated in the programme.

August 2019

34. Visit of Shri. Sharadchandraji Pawar to MPKV



August 29, 2019. Shri. Sharadchandraji Pawar, Hon'ble Member of Parliament and Former Union Minister of Agriculture, GoI visited the Mahatma Phule

Krishi Vidyapeeth, Rahuri. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri presided over the function organized on this occasion. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Sopan Kasar, Registrar, Shri. Milind Dhoke, University Engineer and Associate Deans were present on the dais. In his address, Shri. Pawar expressed his happiness to visit MPKV after a long period and expressed satisfaction on the various activities of the university in education, research and extension education. He recollected the work and contribution of Mahatma Phule for the farmers and women education and further said that we are fortunate to have his great name to this university. The ICAR Farmer FIRST programme woman farmer Mrs. Savita Nalkar of Chinchvihire village was felicitated at the hands of Shri. Pawar during the function. Earlier Shri. Pawar visited the exhibition organized at Agriculture Technology Information Centre, horticulture farm, Centre of National Dairy Development Board, Dairy farm, Integrated Farming System model of farmers Shri. Chandrakant and Shri. Uttam Adsure and Bamboo training centre.

35. Independence Day celebrated



August 15, 2019. The 73rd Independence Day of the nation was enthusiastically celebrated in the university. Vice Chancellor Dr. K. P. Viswanatha hoisted the national flag. In his address Dr. Viswanatha said that

the independence of our nation was sought through the sacrifices of our freedom fighters. We need to remember their efforts and put our best for the progress of the country. The university has contributed to education, research and extension education. Shri. Sopan Kasar, Registrar gave an oath of tobacco ban on this occasion. The NCC students led by Prof. Sunil Fulsawange gave a salute on this occasion. Dr. S. R. Gadakh, Director of Research and Extension Education, Comptroller Er. Vijay Kote, University Engg. Er. Milind Dhoke, Associate Deans Dr. P. A. Turbatmath, Dr. D. D. Pawar, Dr. S. A. Ranpise, Heads of Departments, Chief Scientist (Seed) Dr. A. V. Solanke, staff and students were present for the programme. A blood donation camp was organized at Dr ASCAE & T by NSS, NCC and District Hospital, Ahmednagar. Various units like Micronutrient laboratory, Sale counter, Pipeline, Office shade of Bamboo project and Vermicompost production unit of Cattle project were inaugurated at the hands of Vice Chancellor Dr. K. P. Viswanatha on this occasion.

36. Phule Vikram chickpea variety released for Central Zone of India for Mechanical Harvesting purpose



August 27-29, 2019. The MPKV released chickpea variety *Phule Vikram* has been released for Central Zone of India (Maharashtra, Madhya Pradesh and Gujarat States) during the twenty fourth Chickpea Annual Group Meet held at Birsa Agricultural



University, Ranchi. This variety has been evolved from a cross of ICCV 10 x ICCL 87322, the breeding material received from ICRISAT, Patancheru (Telangana). *Phule Vikram* is suitable for mechanical harvesting because of tall growth habit and pods starting above 27.7 cm from ground level. Similarly, there are no any losses during mechanical harvesting and it also reduces the cost of production. It is resistant to major disease i.e. Fusarium wilt, it has potential upto 45.93 q/ha, whereas, it gives 22.65 q/ha. average yield. The seed size of this variety is medium (21.6 g / 100 seeds) and it matures within 110 to 115 days. The release of this variety will definitely boost the chickpea production in the state as well as of the country.

37. Students success in ICAR SRF exams

August 5, 2019. The students of College of Agriculture, Pune achieved a remarkable success in the ICAR's Senior Research Fellowship exams-2019 conducted at the national level. The students Mahesh Jadhav and Siddharth Kale ranked first in Agril. Entomology and Soil Science and Agril. Chemistry subjects, respectively. Mohammad Shamnaz stood second in Biotechnology, while, Parth Jadhav ranked 55th in Soil Science and Agril. Chemistry subject. The students Vivek Raut (Agronomy), Rajkumar Meena (SS7AC), Kavi Bharati (Agril. Economics), Ramanna Vannkatti (Horticulture), Pawan Nakhate (SS&AC), Snehal Chaudhary (Genetics and Plant Breeding) also excelled in the ICAR SRF national exams. Vice Chancellor Dr. K. P. Viswanatha, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune and Dr. S. D. Masalkar, Principal, College of Horticulture, Pune congratulated the students.

38. University Sale Counter inaugurated



August 15, 2019. The University Sale Counter was inaugurated at the hands of Vice Chancellor Dr. K. P. Viswanatha on the occasion of Independence Day. Dr. Viswanatha said that the university is spread over ten districts of Maharashtra and comprising of twenty seven research stations. MPKV has released prominent varieties/hybrids, improved implements and recommendations for the farmers since its establishment. The university branded Phule Seed along with bio pesticides, bio fertilizers, seedlings, grafts, bakery and processed products have a huge demand by the farmers. Thus, this Sale Counter would cater to the needs of farmers, he hoped. Dr. S. R. Gadakh, Director of Research said that the university has planned for twenty seven such centres in its jurisdiction. All the university products including the publications, tools, bamboo handicrafts would be made available at the Sale Counters. A marketing chain would be developed in which Sales representatives would be nominated for each district. Discount would be given to Farmers Groups and Private Agencies for purchasing these products in bulk. Associate Deans Dr. P. A. Turbatmath, Dr. D. D. Pawar, Dr. A.V. Solanke, Chief Scientist (Seed), Heads of Departments, Officers, scientists and staff were present on this occasion.

39. University Bakery unit strengthened



August 27, 2019. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri inaugurated the advanced machinery at the Bakery Unit of MPKV, Rahuri. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. S. A. Ranpise, Associate Dean, LAE and Heads of Department were present on this occasion. Dr. U. D. Chavan, Head, Department of Food Science and Technology (FST) briefed about the new machinery installed at the Bakery unit. He appraised of the various training programmes conducted by the Dept. of FST and technical assistance to the young entrepreneurs to start their bakery units.

40. Awareness programme of *Jalshakti Abhiyan* launched



August 5, 2019. An Awareness programme of *Jalshakti Abhiyan* was launched at MPKV, Rahuri in coordination with the Department of Agriculture and Krishi Vigyan Kendra. Dr. S. R. Gadakh, Director of

Research and Extension Education presided over the programme. Dr. Gadakh in his presidential address hoped for activities like roof water harvesting, renovation of water bodies and adoption of insitu soil moisture techniques. Shri. Vilas Nalage, DSAO, Ahmednagar in his introductory remarks said that the *Jalshakti Abhiyan* is an ambitious programme of the Central Government and eight districts of Maharashtra state have been selected for this purpose. Shri. Mahendra Thokle, TAO, Rahuri, Dr. Sambhaji Nalkar, Head, KVK, Babhaleshwar, Dr. Kaushik, Head, KVK, Dahigaon-ne, Dr. P. B. Kharde, Officer Incharge, Communication Centre and scientists, staff of Agriculture Department were present on this occasion.

41. Dr. Gadakh visited KVK, Mohol and Ajnale pomegranate village



August 2, 2019. Dr. S. R. Gadakh, Director of Research and Extension Education visited Krishi Vigyan Kendra, Mohol. He was accompanied by Dr. Vijay Amrutsagar, Chief Scientist and ADR, NARP, Solapur. Dr. T.R. Walkunde, Incharge, Head, KVK, Mohol briefed about the KVK activities. He also visited the village Ajnale, a pomegranate village of Sangola tahasil of Solapur district. He visited the orchards of farmers Shri. Mahadev Lade, Shri. Pandurang Lade and Shri. Nitin Yelapalle. Mr. Rajaram Patil, the first innovator of pomegranate orchard of the village briefed about the history of pomegranate and present status



of the village. Mr. Ajay Dighe, SMS (Agril. Extn.) explained about the success of Ajnale. Mr. Prabhakar Chandane, Chairman, *Akhil Bhartiya Dalimb Sangh* welcomed Dr. Gadakh and acknowledged the technical interventions provided by MPKV to the pomegranate growers of the state. Dr. Gadakh briefed about the research in new crops and their production practices.

42. Dr. Lakhan Singh, Director, ATARI, Pune visited KVK, Mohol



August 19, 2019. Dr. Lakhan Singh, Director, ATARI, Pune visited Krishi Vigyan Kendra, Mohol. He was accompanied by Dr. DVS Reddy, Pr. Scientist, ATARI, Bengaluru. Dr. Singh inaugurated the display board of the plan layout of KVK instructional farm. Trees were planted at the hands of the dignitaries. Dr. T. R. Walkunde, I/C Head of KVK welcomed the dignitaries. Mr. K. A. Jadhav, SMS (Hort.) briefed about the fruit crop cafeteria, mother orchard block, dragon fruit demo plot, lawn and ornamental plants for beautification. Mr. N. B. Jadhav, Farm Manager explained about the fruit and forest species at the KVK instructional farm. Dr. Lakhan Singh appreciated the initiatives of the KVK and gave suggestions for demonstration units. Dr. Reddy hoped that these activities will benefit the farmers.

43. Participation in the first Annual Review Workshop of NAHEP



August 5-6, 2019. The first Annual Review workshop of NAHEP was organized at NAAS Complex, New Delhi. Vice Chancellor Dr. K. P. Viswanatha participated in the review workshop. Dr. S. D. Gorantiwar, Principle Investigator, CAAST-CSAWM, MPKV Rahuri and Dr. A. A. Atre, Procurement Officer, CAAST-CSAWM project participated as the project representatives. Two Research Associates of the project viz., Dr. P.B. Kale and Dr. M.N. Baviskar demonstrated the innovative outcomes of the project. Shri. Kailash Choudhary, Hon'ble Minister of State for Agriculture, Cooperation and Farmers Welfare, New Delhi and Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi addressed the participants. The innovative activities of CAAST-CSAWM project viz., Auto Phule Irrigation Scheduler, Phule Pest and Disease Management Application and Soil Moisture Sensors were demonstrated to the dignitaries. Dr. Gorantiwar presented the annual progress of the project. Vice Chancellor Dr. Viswanatha assured full support to the project. Experts of NAHEP appreciated the progress of project and conveyed best wishes.

44. National Workshop on Protected Cultivation: Opportunities and Challenges organized



August 27, 2019. A one day National Workshop on Protected Cultivation: Opportunities and Challenges was organized by the Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), MPKV, Rahuri. Vice Chancellor Dr. K. P. Viswanatha presided over the function. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research were present for the programme. In his presidential address Vice Chancellor Dr. Viswanatha highlighted the benefits associated with protected cultivation and its role in meeting the global food demand. Dr. Pharande delivered the welcome speech. Dr. Gadakh also expressed his remarks. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project gave the introductory remarks and briefed about the objectives of the workshop. The Heads of the Departments, scientists, staff, farmers and students were present on this occasion.

45. Training programme on Applications of Advanced Python Computations in Climate Smart Agriculture organized

August 1-3, 2019. A three day training programme on Applications of Advanced Python



Computations in Climate Smart Agriculture was organized by CAAST-CSAWM, MPKV, Rahuri. In the inaugural address Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project briefed the importance of the advanced python computations for agriculture domain. Dr. S. A. Kadam, IT Officer and Organizing Secretary, CAAST-CSAWM explained the various problem statements of Python programming in irrigation and water requirement with introduction of expert. Er. Gajanan Kothawade, Data Scientist, Quantela Inc, Bangalore, Dr. Pramod Popale, Asst. Prof., Dept. of IDE, all the Research Associates of CAAST-CSAWM, RKVY-IWRAS and twenty five students were present.

46. Training programme on IoT applications and advanced technologies for CSAWM



August 19, 2019. A one day training programme was conducted by CAAST- CSAWM project on IoT applications and advanced technologies for CSA and WM at Dr. ASCAE&T, MPKV, Rahuri. Dr. S.



M. Nalawade, Organizing Secretary gave a brief introduction about the training programme. The Guest faculty Er. Hare Krishna Singh from Qualden Technologies Pvt. Ltd., Dr. S. B. Nandgude, Professor of SWC and Dr. M. S. Mane, Professor of IWM were present for this programme. The first half of the day followed with detailed presentation on various aspects of IoT applications. Students were understood the concept of IoT, advanced technologies and its applications in agriculture sector. They were engaged with the demonstration of IoT based Phule soil moisture and automatic pump controller application.

47. Training programme on Precision Irrigation Water Management organized at Pune



August 20-21, 2019. A two day training programme on Precision Irrigation Water Management was organized by CAAST-CSAWM project by Sub-Campus, College of Agriculture, Pune. The programme was inaugurated by Vice Chancellor Dr. K. P. Viswanatha. Dr. Jayashree Pachpute, Organizing Secretary and Co-PI gave a brief introduction on different topics of precision irrigation water management to be presented during the training programme. Mr. Pankaj Godake anchored the programme, while, Miss. Sonali Ubale proposed thanks.

September 2019

48. Vice Chancellor greets new Hon'ble Governor of Maharashtra and Chancellor at Rajbhavan, Mumbai



September 11, 2019. Vice Chancellor Dr. K. P. Viswanatha met Shri. Bhagat Singh Koshiyari, the new Hon'ble Governor of Maharashtra and Chancellor at Rajbhavan, Mumbai. Dr. Viswanatha greeted him on behalf of the university. He briefed him about MPKV's achievements in agricultural education, research and extension education. The contribution of university's impact on farmers' income was also highlighted. He presented the Hon'ble Governor with a copy of the university's Golden Jubilee Souvenir.

September 30, 2019. Vice Chancellor Dr. K. P. Viswanatha met Chief Secretary Shri. Ajay Mehta at Mantaralaya, Mumbai and handed over the cheque of Rs 40,40,888/- one day salary of staff of MPKV, Rahuri for flood victims of Kolhapur and Sangli to Chief Minister fund.

September 30, 2019. Vice Chancellor Dr. K. P. Viswanatha, Dr. S. R. Gadakh, Director of Research and scientists had a meeting with Dr. Anil Kakodkar at Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra and got sanctioned Rs 2.85 crore for jaggery research in Kolhapur.

49. Consultative Workshop organized for quality agricultural higher education



September 23-24, 2019. A Consultative Workshop was organized on Academia-Industry-Government linkages for quality agricultural higher education at MPKV, Rahuri in collaboration with NAARM, Hyderabad. Vice Chancellor Dr. K. P. Viswanatha presided over the inaugural programme. Dr. Narayan Shisode, Director, Extension and Training, M. S. was the Chief Guest for this programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension education, Dr. Surya Rathore, Principal Scientist, NAARM, Hyderabad, Associate Deans Dr. D. D. Pawar, Dr. S. A. Ranpise, Dr. Y. G. Fulpagare, Dr. V. D. Shende, Nodal Officer, PAHCOA, Halgaon, Dr. M. C. Ahire, Programme Director and Head, Department of Agricultural Extension and Communication and Dr. V. V. Sumanthkumar, Senior Scientist, NAARM, Hyderabad were present on this occasion. Representatives of industry, entrepreneurs, scientists and students participated in the technical sessions of the workshop.

50. Teachers Day celebrated

September 5, 2019. The Teachers Day was celebrated in the university. Dr. Sarjerao Nimse, Former Vice Chancellor, Lucknow University and



Swami Ramanand Teerth Nanded University delivered the Chief Guest address. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri presided over the function organized on this occasion. In his speech Dr. Nimse said that Late Dr. Sarvapalli Radhakrishnan was a great scholar, philosopher, Professor and an expert in *Vedas* and *Bhagwat Gita*. Teaching is the most precious and a valuable profession. Vice Chancellor Dr. Viswanatha in his presidential address said that Late Dr. Radhakrishnan was a great philosopher of the 20th century. He said that education is a continuous process and teachers are the building block of the society. Associate Deans Dr. Y. G. Fulpagare, Dr. S. A. Ranpise, Dr. D. B. Yadav, Dr. V. D. Shende, Prof. Dilip Gaikwad were present on the dais. Staff and students were present for the programme.

51. National Training Programme organized in Pune



September 17 to October 7, 2019. The Department of Agricultural Meteorology, Centre of Advanced



Faculty Training in Agricultural Meteorology (CAFT), College of Agriculture, Pune had organized a National Training Programme on Recent Advances in Crop Micrometeorology which was sponsored by ICAR, New Delhi. The Chairman of the inaugural function was Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune. The Chief Guest of this inaugural function was Prof. Dr. M. C. Varshneya, Former Vice Chancellor, Kamdhenu Veterinary University, Gandhinagar, Gujarat. The Guest of Honour was Dr. Kripan Ghosh, Head, Agrimet Division, IMD, Pune. About 25 participants of the rank of Assistant Professor and above from SAUs/Colleges/ICAR Institutes attended the programme. The resource persons from different states also delivered lectures for this training programme such as Dr. R.H. Patil, Head, Dept. of Agril. Met., UAS, Dharwad, Dr. V.U.M. Rao, Former P.C.(Agromet),CRIDA, Hyderabad, Dr. S.R.Patel, IGKV, Raipur, Chattisgarh, Dr. V. B.Vaidya, Asstt. Prof of Agril. Met., AAU, Anand, Dr. B. I. Karande, AAU, Anand, Gujrat etc. Dr. Prabhjyot Kaur Sidhu, Head, Climate Change and Agril. Meteorology, PAU, Ludhiana, Punjab was nominated as Observer by ICAR, New Delhi for this National Training Programme. She visited and interacted with the trainee participants. The valedictory function of the National Training Programme was held under the chairmanship of Dr. K. P. Viswanatha, Vice Chancellor, Mahatma Phule Krishi Vidyapeeth, Rahuri in presence of Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune and Dr. S. D. Masalkar, Associate Dean, College of Horticulture, Pune. Dr. J. D. Jadhav, Director, CAFT and Head, Department of Agricultural Meteorology, College of Agriculture, Pune and his colleagues took efforts in successful organization of the programme.

52. Training programme on Backyard Poultry organized under ICAR Farmer FIRST programme



September 20, 2019. An offcampus Training Programme on Backyard Poultry was organized at Chinchvihire village under the ICAR Farmer FIRST programme. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. In his address to the farmers and women, Dr. Gadakh highlighted the significance of backyard poultry as a sustainable enterprise which can give a regular source of income. At the outset Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP gave an overview of the success story of backyard poultry during the last two years through this programme. University experts Dr. Ravindra Nimse and Dr. Sunil Adangle guided the poultry farmers on vaccination, diseases and their control measures, water and feed management.

53. Training programme on Chickpea seed production technology organized under ICAR FFP at Kangar

September 26, 2019. A Training Programme on Chickpea seed production technology was organized at Kangar village under the ICAR Farmer FIRST programme in coordination with the State Department of Agriculture. Dr. M. C. Ahire, Head, Department of



Agricultural Extension and Communication presided over the programme. Dr. V. D. Shende, Associate Director of Research, Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP, Dr. N. S. Kute, Senior Scientist, Pulses Improvement Project and scientists were present on this occasion. Farmers in large number participated in the training programme. Visits to various activities of ICAR FFP were organized on this occasion.

54. Farmers trained on Rabi Sorghum Seed Production Technology under ICAR Farmer FIRST programme



September 6, 2019. A Training Programme on Rabi Sorghum Seed Production Technology was organized at Chinchvihire village under the ICAR Farmer FIRST programme in coordination with the State Department of Agriculture and MAHABEEJ. At the outset Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP in his

welcome and introductory remarks briefed about the activities of the ICAR FF project. University scientists and officer of MAHABEEJ guided the farmers. Farmers and farm women of Chinchvihire and Kangar villages participated in this training programme.

55. Training programme on Integrated Farming System for climate smart agriculture and water management organized at Pune



September 18-19, 2019. A two days training programme on Integrated Farming System for climate smart agriculture and water management was organized by CAAST-CSAWM project at College of Agriculture, Pune. The programme was inaugurated by Vice Chancellor Dr K. P. Viswanatha. Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune and Dr. S. D. Masalkar, Principal, College of Horticulture, Pune were present on this occasion. Dr. J. S. Pachpute, Co-PI and Training Organizing Secretary gave the introductory remarks and briefed about the training. During this two days training programme different topics were discussed such as Integrated cultivation practices in problematic soil and rectification through cultivation of essential oil bearing crops, Success story of Integrated Farming System model being implemented under the ICAR Farmer FIRST programme, Climate smart farming system and Climate Smart integrated farming system models recommended by the university.

The resource persons for this training programme were Mrs. Vasanti Purohit, Director IMT Tech. Ltd, Pune, Mr. Dnyaneshwar Bodke, Agri. Entrepreneur, Dr. P .B. Kharde, Office In-charge, Communication Center, MPKV, Rahuri, Dr. Santosh Sahane, CEO, Forecast Agrotech, Pune, Mr. Somnath Choudhary, Program Manager, BAIF, Nasik and Dr. U. S. Surve, Chief Agronomist and I/C, IFS Scheme, MPKV, Rahuri.

56. Training programme on Climate Resilient Agriculture organized



September 6-7, 2019. A two day training programme on Climate Resilient Agriculture and Smart Village approach was organized by CAAST-CSAWM project at College of Agriculture, Pune. The programme was inaugurated by Dr. A. L. Pharande, Dean, Faculty of Agriculture. He guided the participants about importance of climate resilient agricultural technologies and its applications in the villages. Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune addressed about use of smart technologies in the PG Field experimentation. Dr. J. S. Pachpute, Co-PI, CAAST-CSAWM, Sub- campus, Pune welcomed and introduced the dignitaries. Dr. R. P. Andhale, Organizing Secretary and Member, CAAST-CSAWM gave brief introduction on different topics of Climate Resilient Agriculture and Smart Village approach to be covered during the training programme. The resource persons for training programme were

Dr. Sachin Kamble, AGM, NABARD, Maharashtra Regional Office, Pune, Dr. Sanjay More, Sr. Manager, Skymet, Pune, Dr. Dhananjay Pandit, Director, WRM, RT International, Pune, Dr. J. D. Jadhav, Head, Dept. of Agril. Meterology and Dr. Kripan Ghosh, Head, Agrimet Division, IMD, Pune. Dr. S. A. Ranpise, Associate Dean, LAE, MPKV, Rahuri, Dr. S. D. Masalkar, Principal, College of Horticulture, Pune and participants were present during this programme.

57. Training programme on Fostering Employment and Empowerment through Agriprenureship Development organized



September 12-13, 2019. A two day training programme on Fostering Employment and Empowerment through Agriprenureship Development was organized by CAAST-CSAWM project at MPKV, Rahuri. The programme was inaugurated by Dr .Y. G. Fulpagare, Associate Dean, PGI, MPKV, Rahuri. Dr. M. C. Ahire, Head, Department of Agricultural Extension and Communication and Training Organizing Secretary in his introductory remarks briefed about the training. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project and Dr. M. G. Shinde, Co-PI, CAAST-CSAWM project were presented on dais. During these two day training programme different topics were discussed such as poultry growth in India, Agri-economy, Agribusiness opportunities for good

career, Establishment of primary and secondary agro processing enterprises, Government support schemes and subsidies for establishing Agriprenureship development, Market survey research, methodology, effective market survey plan for agri-enterprises and ring toss exercise. The resource persons for training programme Mr. Shrikrushna Gangurde, Avee Broilers, Nashik, Mrs. Swati Shingade, Woman entrepreneur, Baramati, Mr. U. U. Bhale, Director, Udyam Info Solutions Pvt. Ltd., Aurangabad and Dr. S. B. Sapkal, Department of Agriculture Economics, MPKV, Rahuri guided the trainees.

58. Inauguration of IoT based project at Mantralaya, Mumbai



September 17, 2019. CAAST-CSAWM, MPKV, Rahuri in collaboration with Lupin Foundation, NABARD, Incubation Centre, Pune University, Innovation Technology Pvt. Ltd. and Buchkewadi village has implemented the project on IoT to monitor soil moisture and automated irrigation system at Buchkewadi village, Block. Junnar, District. Pune. Buchkewadi village was selected under CAAST-CSAWM, MPKV, Rahuri for diffusion of climate smart agriculture and water management technologies. This IoT based project was inaugurated at the auspicious hands of Dr. Anil Bonde, Hon'ble Minister of Agriculture, Maharashtra state at Mantralaya, Mumbai. On this occasion Dr. M. G. Shinde, Co-PI, CAAST-CSAWM and Dr. S. A. Dhenge, Research Associate presented the report.

59. Pre-training programme organized



September 26 to October 10, 2019. A two week Pre-training programme was organized on Basics of Drones, AI and Geo-informatics for Climate Smart Agriculture and Water Management” by the CAAST-CSAWM project at CC, Rahuri. The training programme was inaugurated by Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, MPKV, Rahuri. During this two week training programme different topics were discussed such as Basics of Remote Sensing and GIS, Introduction to crop mapping using RS and GIS techniques, LULC and Water Management, drones, UAVs and UASs, Map product from drones, Flight planning software/apps-DJI GS Pro, Pix4D Capture, UAV rules and regulations, Basic Concepts, Principles and applications of Remote Sensing, Global Positioning System (GPS), Principles, Concepts and Applications, ArcGIS: How to go for Geo referencing, create Shape files for creation of thematic data types, Built-in data structures in Python, Control program flow in Python, Basics, Process and Application of Geographical Information Systems etc.

60. Expert lecture on personality development organized

September 26, 2019. An Expert Lecture on You are the Author of Your Own Destiny was organized at MPKV, Rahuri for PG students under the CAAST-CSAWM project. Er. Rajiv Roy, Founder and Director





of Agri-plast Protected Cultivation Pvt. Ltd., Bangalore delivered the lecture for students on personality development. The expert lecture was started with an informal opening-cum-welcome ceremony in the presence of Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project and other CAAST members.

61. Industry-Government-Academicians-Students Interface organized



September 26-27, 2019. A two day Industry-Government-Academicians-Students Interface on Quality, technical and financial aspects of Protected Cultivation Structures was organized by CAAST-CSAWM project at MPKV, Rahuri. The interface was inaugurated by Dr. Prahlad Pokale, Director (Agriculture), Pune. The technical experts Dr. S. D. Gorantiwar, PI, CAAST-CSAWM, Dr. N. N. Firake, Head, Dept. of IDE, Er. Sandip Dere, Dere Agro-industries, Ahmednagar, Mr. Chetan Dedhia, J. J. Overseas, Mumbai, Er. Rajiv Roy, Founder and

Director of Agriplast Protected Cultivation Pvt. Ltd., Bangalore took part in the interactions. Dr. Gorantiwar gave the preamble of this interface and its importance for commercial growth of protected cultivation technologies, employment generation and entrepreneurship development.

62. Student-Industry interface organized



September 11, 2019. A one day Student-Industry interface programme on Role of application UAV in precision farming was organized by CAAST-CSAWM project at sub campus College of Agriculture, Pune. The programme was inaugurated by Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, MPKV, Rahuri. He briefed about the various ongoing activities of the project. Dr. S. M. Nalawade, Head, Farm Machinery and Power Engineering and Organizing Secretary in his introductory remarks briefed about the training. Dr. Ramesh Krishnamurthy, Sinsil International Pvt. Ltd, Mumbai, Mr. Aditya Lingolu, Celestrone Technologies Pvt. Ltd., Mumbai and Mr. Swanand Gudhate, Technical Head, Idea Forge Technology Pvt. Ltd., Mumbai guided the trainees.

October 2019

63. Inauguration of Kisan Aadhar Sammelan-2019

October 25, 2019. The event of Kisan Aadhar Sammelan-2019 was organized at the Mahatma Phule Krishi Vidyapeeth, Rahuri during October 25-26, 2019 in collaboration with Department of Agriculture, M.S. and Agriculture Technology Management Agency (ATMA), Ahmednagar. The event comprised of Live Crop Demonstrations, Agriculture and Animal Exhibition and Expert lectures.

The Kisan Aadhar Sammelan-2019 was inaugurated at the auspicious hands of Dr. Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority and Chairman, Committee on Doubling of Farmers' Income, Ministry of Agriculture, Cooperation and Farmers Welfare, New Delhi. Vice Chancellor Dr. K. P. Viswanatha presided over the function. Mr. Vishwajit Mane, Director General, MCAER, Pune, Dr. Raviprakash Dani, Former Vice Chancellor, DrPDKV, Akola, Mr. Prataprao Bhosale, Member, Executive Council, Kamdhenu University, Gandhinagar, Gujarat, Shri. Nathaji Chougule, Member, Executive Council, MPKV, Rahuri, Mrs. Sunita Patil, Member, Executive Council, MPKV, Rahuri, Dr. Ravshan Ismoliv of Uzbekistan, Shri. Shivajirao Jagtap, District Supd. Agril. Officer, Ahmednagar, Dr.

V. S. Shirke, Director, Extension and HRD, MCAER, Pune, University Directors Dr. A. L. Pharande and Dr. S. R. Gadakh, Shri. Sopan Kasar, Registrar, Shri. Vijay Kote, Comptroller and Shri. Milind Dhoke, University Engineer were present on the dias.

The MPKV documentary (English version) was released on this occasion. Associate Deans, Heads of Departments, scientists, students and farmers were present on this occasion. The Agriculture and Animal exhibition was also inaugurated at the hands of the dignitaries.

64. Concluding programme of Kisan Aadhar Sammelan-2019

October 26, 2019. The Kisan Aadhar Sammelan-2019 concluded on October 26, 2019. Vice Chancellor Dr. K. P. Viswanatha presided over the function. The Expert Lectures of Shri. Vilas Shinde, Chief Executive Officer, Sahyadri Agro Farms, Nasik and Ex Alumini of MPKV and Mrs. Swati Shingade, Chief Executive Officer, Pure Organic and Ex Alumini of MPKV was organized on this occasion. Dr. S. D. Sawant, Vice Chancellor, DrBSKKV, Dapoli, Dr. V. M. Mayande, Former Vice Chancellor, DrPDKV, Akola, Dr. M. C. Varshneya, Former Vice Chancellor, Kamdhenu University, Gandhinagar, Dr. Vijay Mahajan, Director, NRC for Onion and Garlic, Rajgurunagar, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh,

Director of Research and Extension Education and Shri. Shivajirao Jagtap, District Supd. Agril. Officer, Ahmednagar were present on the dias.

Shri. Vilas Shinde spoke on the topic Farmer Producer Company and Fruit and Vegetable Processing. He appealed to the farmers to have a practical and professional approach towards farming. The reducing land holding per farmer is a cause of concern. This reducing land holding along with traditional farming will not earn sufficient income for farmers. Hence, farmers should come forward and establish Farmer Producer Companies which will ensure group farming, supply of agricultural inputs at competitive prices and organized marketing for their farm produce, he said. Mrs. Swati Shingade while guiding the farmers on Agricultural Entrepreneurship and Opportunities said that the agricultural graduates need to be job providers and not job seekers. Agriculture is a vast sector where farmers and youth have ample opportunities for successful entrepreneurship. For this purpose their entrepreneurial capacities need to be strengthened, she said. Farmers, students and university staff were present on this occasion.

65. Live Crop Demonstrations



Crop demonstrations on over 100 acres were organized for the benefit of farmers during the Kisan Aadhar Sammelan-2019. It included demonstrations on cereals, pulses, oilseeds, forage, vegetables, flowers

and cash crops. In all demonstrations of 56 crops and 145 varieties were planted in the cafeteria. In addition demonstrations on advanced irrigation methods, mole plough, soil testing, vermiculture, cultivation of dragon fruit, vegetable and flower cultivation in shadenet, apiculture, integrated pest management, biocontrol were also organized on this occasion. Major attraction of this event was the Integrated Farming System model on farmers field of Shri. Chandrakant Adsure and Shri. Uttam Adsure.

66. Agriculture and Animal Exhibition



An Agriculture and Animal Exhibition was organized during the Kisan Aadhar Sammelan-2019. The university technologies were showcased in this exhibition. This included agriculture inputs, improved agriculture implements, processing, subsidiary occupations, medicinal and aromatic plants, publications etc. The animal component included indigenous and improved breeds of cattle, goat, sheep, poultry and dogs. The Government schemes of Department of Agriculture, ATMA, Zilla Parishad, ICAR Farmers FIRST programme were exhibited in the event. Many farmers and farm women visited the Kisan Aadhar Sammelan-2019.

67. Kharif Technology Day organized at AC, Pune

October 15, 2019. The Kharif Technology Day



was organized at College of Agriculture, Pune. Dr. Vijay Bhatkar, Chancellor, Nalanda University and Inventor of Param Computer inaugurated the event. Vice Chancellor Dr. K. P. Viswanatha presided over the programme. Shri. Suhas Divse, Commissioner, Agriculture, M. S., Shri. Prataprao Bhosale, Member, Executive Council, Kamdhenu University, Gandhinagar, Dr. K. V. Prasad, Member, Executive Council, MPKV, Rahuri and Director, Directorate of Floriculture, Pune, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. V. S. Shirke, Director of Extension and HRD, MCAER, Pune, Associate Deans Dr. P. M. Rasal and Dr. D. D. Pawar, Dr. S. D. Masalkar, Principal, CoH, Pune, Dr. V. S. Supe, Associate Director of Research, Ganeshkhind and Dr. Shivaji Gurav, Deputy Registrar, PPV & FRA, Pune division were present on the dais. Scientists, students and farmers were present for the programme. Various crop demonstrations were organized on the college farm for the farmers.

68. Agriculture Technology Day organized at AC, Dhule

October 31, 2019. The Agriculture Technology Day was jointly organized by College of Agriculture, Regional Extension Centre and Krishi Vigyan Kendra, Dhule in coordination with Department of Agriculture and ATMA, Dhule. Dr. S. R. Gadakh, Director of



Research and Extension Education presided over the programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. Pankaj Mahale, Member, Executive Council, Dr. A. M. Musmade, Associate Dean, Shri. Milind Dhoke, University Engineer, Shri. Vivek Sonawane, District Suptd. Agril. Officer, Dhule, Dr. M. S. Mahajan, Extension Agronomist, Regional Extension Centre, Dr. D. N. Nandre, Head and Programme Coordinator, KVK, Dhule and Prof. Dr. C. D. Deokar were present on the dais. Thousands of farmers and farm women were benefited through this event.

69. Field demonstration under Kharif Mahotsav-2019 through drone-mounted sprayer organized

October 15, 2019. Field Demonstration under Kharif Mahotsav -2019 on Horticultural and cereal crops through drone-mounted sprayer was organized under the CAAST-CSAWM at Sub-campus College of Agriculture, Pune. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM emphasized the precise spraying which improves the crop productivity and saves the time and human intervention in the field. Dr. K. P. Viswanatha, Vice Chancellor, MPKV, Rahuri, Dr. Vijay Bhatkar, Chancellor, Nalanda University, Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. K. V. Prasad, Director, ICAR-



Directorate of Floricultural Research, Pune, Dr. P. N. Rasal, Associate Dean College of Agriculture, Pune, Dr. J. S. Pachpute, Co-Principal Investigator CAAST subcampus, Pune, faculty, farmers and students were present on this occasion.

70. Visit of delegation of Republic of Uzbekistan to MPKV, Rahuri



October, 25-27, 2019. A delegation of Namangan Institute of Engineering and Technology the Republic of Uzbekistan visited the CAASTCSAWM project of MPKV, Rahuri. Vice-Chancellor Dr. K. P. Viswanatha briefed about the educational, research and extension activities of the university. Dr. A. L. Pharande, Dean (F/A) and Director of Instructions, MPKV, Rahuri presented the significant educational and research achievements. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM explained the preamble of CAAST-CSAWM, MPKV project. The Heads of Department, members and Research Associates participated in the discussion. The purpose of visit was to discuss about possible collaborative research and initiation of MoUs between MPKV, Rahuri and Namangan Institute of Engineering and Technology, Namangan, Uzbekistan. They visited the various research projects, demonstration plots of PGI instructional farm, Integrated Farming system model, Underground drainage system, Horticulture nursery and Dairy unit.

November 2019

71. See-off function for first batch of PG students for International Training at Asian Institute of Technology, Bangkok, Thailand under CAAST - CSAWM Project



November 9, 2019. A See-off function for the first batch of International Training was organized by CAAST-CSAWM project at College of Agriculture, Pune. The programme was inaugurated by Vice Chancellor Dr K. P. Viswanatha. Shri. Sopan Kasar, Registrar MPKV, Rahuri, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, MPKV, Rahuri, Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune, Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project, Dr. M. G. Shinde, Co-PI, CAAST-CSAWM, MPKV, Rahuri, Dr. P. B. Kharde, Officer In-charge, Communication Centre, MPKV, Rahuri, Co-PIs Dr. R. P. Andhale and Dr. A. A. Atre, Shri. Surayakant Shejwal, PAO, MPKV, Rahuri were present on this occasion. The 1st batch of 20 PG students along with one faculty departed for one month International Training entitled Drones and It's applications Google Earth Engine to be held during 11th November, 2019 to 10th December, 2019 at Asian Institute of Technology, Bangkok, Thailand.

72. National Training Programme organized



November 14 to December 4, 2019. A twenty one day National Training Programme on National Problems and Constraints in Fruit Crops sponsored by ICAR, New Delhi was organized by the Centre of Advanced Faculty Training in Horticulture (Fruits), Department of Horticulture at MPKV, Rahuri. Vice Chancellor Dr. K. P. Viswanatha inaugurated the programme. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, Shri. Sopan Kasar, Registrar, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. S. A. Ranpise, Head, Department of Horticulture and Dr. B. B. Dhakre, Professor of Horticulture and Convener were present for the programme. Twenty five faculty from nine states of the country participated in this training programme.

73. Training programme on Bee keeping, climate change and sustainability organized

November 22-23, 2019. A two day training programme on Bee keeping, climate change and sustainability was organized in the university. The programme was sponsored by National Agriculture Higher Education Project under the Centre for Advanced Agricultural Science and Technology for Climate Smart Agriculture and Water Management (CAAST-CSAWM). Vice Chancellor Dr. K. P. Viswanatha



presided over the inaugural programme. Dr. S. R. Gadakh, Director of Research and Extension Education, Mr. B. V. Apoorva and Mr. P. R. Badriprasad, Apiculture experts from Karnataka, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. S. D. Gorantiwar, Head, Department of Agril. Engg. and PI, CAAST-CSAWM project and Dr. C. S. Patil, Head, Department of Entomology were present for the programme. Staff and PG students participated in the training programme.

74. Model Training programme on Processing and Value Addition organized



November 18-25, 2019. A Model Training Programme on Processing and Value Addition Technology in Fruits and Vegetables sponsored by Ministry of Agriculture and Farmers Welfare, GoI was organized by the Department of Food Science and Technology at MPKV, Rahuri. Dr. Y. G. Fulpagare, Associate Dean, Post Graduate Institute inaugurated the training programme. Dr. U. D. Chavan, Head,

Department of Food Science and Technology in his introductory and welcome address briefed about the importance of the topic. Twenty two trainees from SAUs and Department of Agriculture from the country participated in this training programme. The concluding programme was organized in presence of Associate Dean Dr. S. A. Ranpise and certificates were distributed to the trainees.

75. Training programme on Soft Skills for Personality Development organized



November 18-19, 2019. Dr. Y. G. Fulpagare, Associate Dean, PGI inaugurated the training programme on Soft Skills for Personality Development organized by the Department of Agriculture Extension and Communication in coordination with the Extension Education Institute, Anand (Gujarat) at MPKV, Rahuri. More than fifty trainees participated in this training programme. The valedictory programme was conducted in presence of Dr. S. R. Gadakh, Director of Research and Extension Education and Dr. Y. G. Fulpagare, Associate Dean, PGI.

76. Mahatma Phule Punyatithi celebrated

November 22, 2019. The death anniversary of great social reformer Mahatma Jyotiba Phule was celebrated in the university. The Chief Guest Dr. Prahlad Lulekar, Head, Department of Marathi, Dr. Babasaheb Ambedkar Marathwada University,



Aurangabad delivered a lecture on the life of Mahatma Phule. Dr. A. L. Pharande, Dean, Faculty of Agriculture presided over the programme. Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Sopan Kasar, Registrar, Dr. D. D. Pawar, Associate Dean, DrASCAE&T, Heads of Department Dr. M. C. Ahire, Dr. S. D. Gorantiwar, Dr. R. M. Naik, Dr. B. D. Bhakare, Dr. Mahaveer Chouhan, Student Welfare Officer and Shri. Dilip Gaikwad, Sports Officer were present on the dais. Staff and students attended the programme.

December 2020

77. 34th University Convocation celebrated



December 5, 2019. MPKV, Rahuri celebrated its 34th Convocation. Honourable Governor of Maharashtra and Chancellor of the university Shri. Bhagat Singh Koshyari presided over the function. Vice Chancellor Dr. K. P. Viswanatha, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Shri. Sopan

Kasar, Registrar, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, Shri. Haribhau Jawale, Vice President, MCAER, Pune, Members of Executive Council Shri. Narendra Darade, MLC, Shri. Tushar Pawar, Shri. Nathaji Chougule, Mrs. Sunita Patil, Dr. Pankajkumar Mahale, Dr. Vijayprakash Thombre, Shri. Dattatraya Pansare, Dr. S. R. Gadakh, Director of Research and Extension Education and Shri. P. T. Suryavanshi, Deputy Registrar, Academic were present on the dais.

In his convocation address Honourable Governor Shri. Bhagat Singh Koshyari said that agriculture is the main occupation of farmers of our country. Agricultural graduates have an important role in agriculture. The agricultural graduates need to take efforts for becoming successful entrepreneurs who can be job providers and not job seekers, he said. Vice Chancellor Dr. Viswanatha presented the report on significant achievements of the university in the field of education, research and extension education.

Degrees to 52 Ph. D. holders, 308 Post Graduate holders and 4707 Graduates and medals to successful students were conferred to the graduates at the hands of Honourable Governor and Chancellor of the university. Former Vice Chancellors Dr. V. M. Mayande, Dr. K. E. Lawande, Dr. Kailas Mote, Director General, MCAER, Pune, Shri. Vijay Kote, Comptroller, Shri. Milind Dhoke, University Engineer, Members of Academic Council, staff, students and parents were present for the function. Earlier Honourable Governor visited the agriculture exhibition organized at the Agriculture Technology Information Centre.

78. National Seminar on Pluralistic Extension organized

December 6-7, 2019. A National Seminar on Pluralistic Extension for enhancing farmers income



through reaching the unreached was organized by the Department of Agriculture Extension and Communication, MPKV, Rahuri in coordination with the Maharashtra Society of Extension Education (MSEE), Akola at central campus, Rahuri. Dr. Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority and Chairman, Committee on Doubling of Farmers' Income, Ministry of Agriculture, Cooperation and Farmers Welfare, New Delhi was the Chief Guest for the inaugural function. Vice Chancellor Dr. K. P. Viswanatha presided over the function. Dr. K. Narayan Gowda, Former Vice Chancellor, UAS, Bangalore, Dr. R. R. Sinha, Founder, MSEE and Former DEE, DrPKV, Akola, Dr. Lakhan Singh, Director, ICAR-ATARI, Pune, Captain Dr. L. B. Kalantri, President, MSEE, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education and Dr. M. C. Ahire, Head, Department of Agriculture Extension and Communication and Organizing Secretary were present on the dais.

Vice Chancellor Dr. K. P. Viswanatha and Dr. R. R. Sinha were felicitated with the Lifetime Achievement Awards of the society during the function. Dr. Maradi, Professor of Agril. Extension, UAS, Raichur was felicitated with the Late Yamunabai Sawant Award. The Souvenir Abstracts was released at the hands of the dignitaries. Shri. Sopan Kasar, Registrar, Associate



Deans, Heads of Departments, former Extension stalwarts and more than 200 participants, students were present for the function.

On December 7, 2019 the valedictory programme of the National Seminar was organized in presence of Dr. Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority and Shri. Popatrao Pawar, Executive President, *Adarsha Gaon Yojana*. Vice Chancellor Dr. K. P. Viswanatha presided over the function. Dr. R. R. Sinha, Dr. S. R. Gadakh, Captain Dr. L. B. Kalantri and Dr. M. C. Ahire were present on the dais.



Dr. M. C. Ahire was felicitated with the Best Extension Scientist Award. Mr. S. V. Karanje and Dr. Rekha Tiwari received the awards for Best Research Papers in the Asian Journal of Extension Education of 2017 and 2018 issues, respectively. Dr. P. B. Kharde, Dr. S. G. Puri and Dr. P. S. Kapse were awarded the Best Paper Presentation Awards for first, second and third positions, respectively. In student category Mr. P. U. Rathod, Dr. Anand and Mr. Santosh Pathade received the Best Paper Presentation Awards for first, second and third positions, respectively. The Best Poster Presentation Awards were awarded to Mr. R. G. Nayar (first) and Miss. Veena Jadhav (second). Awards for Best Use of A-V Aids were awarded to Mr. G. P. Chavan (first) and Mr. Saishri (second).

79. Alumni Meet organized at AC, Dhule



December 8, 2019. The Alumni Meet of students passed from College of Agriculture, Dhule was organized. Vice Chancellor Dr. K. P. Viswanatha inaugurated the meet. Ex Alumni Shri. Sarkarsaheb Rawal, Chairman and Director, Universal Starch Chem, Allied Ltd. Doindacha was the Chief Guest for the function. Dr. Pankajkumar Mahale, Member, Executive Council, MPKV, Rahuri, Dr. S. R. Gadakh, Director of Research and Extension Education, Prof. R. T. Marathe, Former Associate Dean of AC, Dhule, Dr. A. M. Musmade, Associate Dean, AC, Dhule and Dr. Laxmimurthy, Former Chief Conservator of Forests, Uttaranchal were present on the dais. Many alumni also expressed their views. Prominent alumni Dr. T. T. Patil, Dr. B. B. Pawar, Dr. J. C. Rajput, Shri. Tushar Randhe, Dr. Swapnil Bachhaw, Mrs. Vaishali Patil, Associate Deans Dr. P. N. Rasal, Dr. S. B. Kharbade and Dr. Y. G. Fulpagare were present for the function.

80. MOU signed between MPKV and Reliance Foundation

December 18, 2019. A Memorandum of Understanding (MoU) was signed between MPKV, Rahuri and Reliance Foundation. Dr. S. R. Gadakh, Director of Research and Extension Education presided over the programme. Dr. K. D. Kokate, Former Director of Extension Education, Shri. Sopan Kasar, Registrar, Shri. Vijay Kote, Comptroller, Shri. Sachin



Mardikar, Chief Finance Officer, Reliance Foundation were present on this occasion. At the outset, Shri. Deepak Kekan, Head, Information Services, Reliance Foundation gave a presentation on the information services of the company. Shri. Mardikar briefed about the various activities of the company in agriculture, education and health. Dr. Gadakh gave an account of the contribution of the university and hoped that the MoU would benefit the farmers. The MoU would help to transfer the university developed technologies to the farmers through mobile advisory. Dr. Kokate also gave important suggestions. Dr. Gadakh and Shri. Mardikar signed the MOU.

81. National Workshop on Disaster Risk Reduction organized



December 6, 2019. A one day national workshop on Disaster Risk Reduction was organized by CAASTCSAWM, MPKV, Rahuri at Central campus, Rahuri. The programme was inaugurated by Dr. D. D. Pawar, Associate Dean, Dr. ASCAET, MPKV, Rahuri

and guided the participants about importance of disaster risk reduction in agriculture. Dr. S. D. Gorantiwar, Principle Investigator, CAAST-CSAWM gave a preamble of CAAST project and guided students about use of disaster risk reduction technologies like Agro-Advisory Services for precision farming. During this one days programme different topics were discussed such as climate change and downscaling, Contingency crop planning and Agro advisory services in respect to farming systems, IMD operational weather and climate forecasting products and services to agriculture and irrigation mapping.

January 2020

82. MAGOVA - 2019 and Rabi Farmers Rally organized



January 11, 2020. *Magova-2019* (Retrospection), a programme to review the various activities of the University during the year 2019 and a Rabi Farmers Rally in coordination with State Department of Agriculture was organized in the university. Shri. Dadaji Bhuse, Hon'ble Minister of Agriculture, M. S. and Pro-Chancellor, MPKV, Rahuri was the Chief Guest, while, Shri. Balasaheb Thorat, Hon'ble Minister of Revenue, M. S. was the guest of honour for the function. Vice Chancellor Dr. K.P. Viswanatha presided over the function. Shri. Lahu Kanade, MLA, Shri. Vishwajit Mane, Director General, MCAER, Pune,

Executive Council member and MLC Shri. Prakash Gajbhiye, Prof. Nathaji Chougule, Mrs. Sunita Patil, Shri. Prataprao Shelke, Vice President, Zilla Parishad, Ahmednagar, Directors, Associate Deans, Officers of the university were present on the dais.



Dr. S. R. Gadakh presented the research and extension activities of the past year. Dr. A. L. Pharande, Dean, Faculty of Agriculture and Shri. Sopan Kasar, Registrar presented the reports on education and administration, respectively.

The popular University publication *Krishi Darshani-2020*, Accomplishments-2019 and MPKV: At a Glance were released during the function. MPKV Calendar-2020, depicting monthwise agricultural information was released on the occasion of *Magova* programme. The university website was also launched. Dr. V. V. Sadamate, Former Member of Planning Commission, Dr. K. D. Kokate, Former Director of Extension Education, Shri. Vijay Ghawate, Director, Planning, M.S., Dr. V. S. Shirke, Director, Extension and HRD, MCAER, Pune, Comptroller Er. Vijay Kote, University Engineer Er. M. P. Dhoke, Associate Deans Dr. D. D. Pawar, Dr. P. N. Rasal, Dr. S. B. Kharbade, Dr. S. R. Ranpise, Dr. G. G. Khot, Dr. Y. G. Fulpagare, Nodal Officer of PAHCoA, Halgaon Dr. V. D. Shende, Shri. Shivajirao Jagtap, DSAO, Ahmednagar, Heads of Departments, staff, farmers and students were present on this occasion. A photographic exhibition was also

organized on this occasion. In the morning session the Hon'ble Ministers including Shri. Shankarrao Gadakh, Hon'ble Minister of Water Conservation, M. S. visited the rabi crop demonstrations organized at Sorghum Improvement Project of the university.

83. International Symposium on Artificial Intelligence based Future Technologies in Agriculture and 54th Annual Convention of ISAE organized



January 7-9, 2020. An International Symposium on Artificial Intelligence based Future Technologies in Agriculture and 54th Annual Convention of Indian Society of Agricultural Engineers (ISAE) was organized by the CAAST-CSAWM project and DrASCAE&T, MPKV, Rahuri and ISAE, New Delhi at Hyatt Regency, Pune. Mr. John Reid, Director, Product Technology and Innovation, John Deere, Shri. S. K. Diwase, IAS, Commissioner of Agriculture, Govt. of Maharashtra and Dr. V. K. Tewari, Director, IIT, Kharagpur, India inaugurated the symposium. The function was presided by Vice Chancellor Dr. K. P. Viswanatha. Dr. S. D. Gorantiwar, Head, Dept. of Agril. Engg., MPKV, Rahuri and Organizing Secretary, ISAE Convention and PI, CAAST-CSAWM introduced the delegates and participants; and provided an overview of the International Symposium. For this symposium, distinguished delegates from industry and academia

were present. Special guests were Dr. V. K Tewari, Professor, IIT, Kharagpur, Dr. Gajendra Singh, Foreign Fellow, NAAS, New Delhi, Dr. A. L. Pharande, Dean Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research, Dr. Manzul Kumar Hazarika, Director, Geoinformatics Centre, AIT, Bangkok, Thailand, Dr. Lav Khot, Dr. Sindhuja Sankaran, Dr. David Brown from WSU, USA, Dr. Ganesh Bora from MSU, USA. Dr. M. G. Shinde, Co-Principal Investigator, CAAST-CSAWM project was session coordinator for the programme. Entire session of symposium had total five different sessions on five different themes: Theme I- Big data driven Artificial Intelligence and Future Agriculture; Theme II- Ground and Aerial Robotic Solutions in AI Era; Theme III- Internet-of-Things (IoT) and Farm Connectivity; Theme IV- Precision to Digital Agriculture Technological Transition; and Theme V- Application of AI in agriculture and water resources.

84. Republic Day celebrated



January 26, 2020. The country's 71st Republic Day was celebrated in the university. Vice Chancellor Dr. K. P. Viswanatha hoisted the national flag. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Registrar Shri. Sopan Kasar, Comptroller Er. Vijay Kote, University Engineer Er. M. P. Dhoke, Associate Deans Dr. D. D. Pawar, Dr. Y. G. Fulpagare, Nodal Officer of PAHCoA, Halgaon Dr. V. D. Shende, staff, students

and employees were present in large number. The NCC cadets under the guidance of Prof. Sunil Fulsawange gave the salute. A Blood Donation Camp was also organized at DrASCAE & T on this occasion.

85. Visit of dignitaries to ICAR Farmer FIRST programme village



January 3, 2020. Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune along with Dr. R. K. Singh, Former Head, Department of Agril. Economics, CSAAUT, Kanpur, KVKs of Maharashtra and Gujarat and ICAR FFPs from NAU, Navsari and JAU, Junagadh visited the MPKVs ICAR FFP village Chinchvhire. At the outset Dr. P. B. Kharde, PI of ICAR FFP welcomed the dignitaries and scientists. The participant farmer Shri. Abhijit Gite gave information of his red gram demonstration plot of Phule Rajeshwari. Shri. Vishal Gite showed his backyard poultry and shared his experiences. The team then visited the chickpea demonstration field of Phule Vikram variety of Shri. Gorakshanath Shinde. He explained about his vermicompost unit. The team was satisfied to visit the six acre Phule Bhagwa pomegranate orchard of participant farmer Shri. Macchindra Shete. Further, they visited the mini dal mill processing unit of Self Help Group. Finally, the team visited the integrated farming system components of farmer Shri. Anil Nalkar



and Mrs. Savita Nalkar. Dr. Lakhan Singh guided the farmers on this occasion. Shri. Mahendra Thokle, Taluka Agriculture Officer, Rahuri, farmers and farm women participated in the visit.

86. National Mushroom Day celebrated



January 4, 2020. The National Mushroom Day was celebrated at College of Agriculture, Pune. It was organized by All India Coordinated Mushroom Research Project. A training programme was organized on this occasion. Associate Dean Dr. P. N. Rasal inaugurated the event. Dr. S. D. Masalkar, Principal, College of Horticulture, Pune, Dr. V. S. Supe, Associate Director of Research, NARP, Ganeshkhind, Dr. Anil Gaikwad, Incharge, AICRP on Mushroom were present for the programme. The mushroom entrepreneurs Shri. Rameshwar Shewale, Shri. Anil Bhokre and Shri. Ramesh Randive shared their experiences. An exhibition of mushroom products was also organized. About 127 trainees were present on this occasion.

87. Training programme organized under ICAR Farmer FIRST programme

January 20, 2020. An offcampus Training Programme on Pomegranate Production Technology was organized at Kangar village under the ICAR Farmer FIRST programme. Dr. P. B. Kharde, Officer Incharge, Communication Centre and PI, ICAR FFP at the outset presented the success stories of pomegranate farmers



through ICAR FFP during the last two years. Dr. Ashok Walunj, Entomologist, Prof. Manjabapu Gawade, Assistant Professor of Horticulture and Prof. M. M. Desai, Manager, ATIC guided the farmers. More than fifty farmers were present for the training programme. In the afternoon session the scientists visited the pomegranate orchards of Shri. Babasaheb Warghude (Kangar). Shri. Dilip Nalkar (Chinchvihire) and Shri. Maruti Gite (Chinchvihire) and guided them.

88. MPKV Staff Sports Team Runners up in Statelevel Inter SAU Staff Sports Competition



January 24-26, 2020. The MPKV staff sports team ended runners up in the second All Maharashtra Inter State Agricultural University Staff Sports Competition-2020 held at Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. The State Agriculture University staff teams from Maharashtra viz., MPKV, Rahuri, Dr PDKV, Akola, Dr. BSKKV,

Dapoli, VNMKV, Parbhani and MAHABEEJ, Akola participated in this competition. The event was inaugurated at the hands of Dr. Ashok Dhawan, Vice Chancellor, VNMKV, Parbhani, Dr. Vilas Bhale, Vice Chancellor, Dr. PDKV, Akola and other dignitaries. More than 200 staff sportsmen and women participated in this three day event. VNMKV, Parbhani won the General Championship. The MPKV staff sports team won the Table Tennis (Men) and Table Tennis (Women) games. They were runners up in Basketball, Cricket, Volley ball, Badminton (Women), Chess (Women) and *Rassikhech* (Men and Women). Dr. Ravindra Bansod won the 400 m race in athletics, while, Shri. Sharad Shirsath was ranked third in 800 m run. Mrs. Seema Mistri stood second in *rangoli* competition. Dr. J. H. Gaikwad won the third prize in *geetgayan* competition. MPKV received the Runners up Trophy at the hands of Shri. Ranjit Patil, Registrar, VNMKV, Parbhani. Vice Chancellor Dr. K. P. Viswanatha and Directors Dr. A. L. Pharande, Dr. S. R. Gadakh and Registrar Shri. Sopan Kasar congratulated the teams for this success.

89. International Workshop on Course Curricula Development for Post Graduate Diploma in Climate Smart Agriculture organized



January 11-12, 2020. The Centre for Advanced Agricultural Science and Technology for Climate

Smart Agriculture and Water Management organized an International workshop on Course Curricula Development for Post Graduate Diploma in Climate Smart Agriculture at central campus, MPKV, Rahuri. The function was presided over by Vice Chancellor Dr. K. P. Viswanatha. Special guest was Prof. David Brown, Washington State University, Pullman, USA in presence of Dr. A. L. Pharande, Dean, F/A, Dr. S. R. Gadakh, Director of Research, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. S. D. Gorantiwar, Convener and Principal Investigator, CAAST-CSAWM, MPKV, Rahuri and Dr. M. G. Shinde, Co-Convener and CO-PI, CAAST-CSAWM, MPKV Rahuri. After inauguration participants and experts were divided into six groups as per the modules and courses. The groupwise draft of different courses was presented by rapporteurs, suggestions were made and finalized the draft of courses. Invitees from international experts, representatives from Academic Institutes/National Institutes/Research Organizations/NGOs/International and National Industries along with scientists and faculty of university participated as resource persons for this two days International Workshop.

90. Visit of World Bank and ICAR, NAHEP Team to CAAST-CSAWM project



January 23, 2020. Visit of World Bank and ICAR, NAHEP Team, New Delhi for evaluation of

NAHEP project of CAAST-CSAWM, MPKV, Rahuri was organized at CC, Rahuri. The visit was started with informal opening-cum-welcome ceremony by Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, MPKV, Rahuri. Mr. Edward W. Bresnyan, Senior, Agriculture Economist, World Bank, Mr. David Nielson, Lead Agricultural Services Specialist, World Bank, Mr. Mansur Ahmed, Economist at the Agriculture Global Practice, World Bank, Dr. Prabhat Kumar, National Coordinator (M&E), NAHEP, ICAR, New Delhi were present during this visit. Vice Chancellor Dr. K. P. Viswanatha welcomed the team. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Vijay Kote, Comptroller, Shri. Milind Dhoke, University Engineer, Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. D. D. Pawar, Associate Dean, Dr. ASCAET, Dr. M. C. Ahire, Associate Dean, COA, Dhule, Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, Dr. M. G. Shinde, Co-Principal Investigator, CAAST-CSAWM, Dr. Jayshree S. Pachpute, Co-Principal Investigator, CAAST-CSAWM, Dr. S. B. Nandgude, I/C, PME Cell and Head, Deptt, of SWCE, Dr. P. L. Kulwal, Nodal Officer, ESP were present on this occasion. Dr. Gorantiwar presented the objectivewise progress of different activities, research and extension which were conducted under this project. The students who had successfully completed one month international level training at AIT, Bangkok, Thailand shared their experiences with World Bank officers. After that the World Bank officers evaluated the progress by visiting the different research fields of the CAAST-CSWAM project. Interaction session was organized with students of MPKV, Rahuri with World Bank, ICAR and NAHEP project Team, New Delhi.

91. International Scientists-Students Interface programme organized at Pune



January 10 & 12, 2020. An International Scientists-Students Interface programme was organized by CAAST-CSAWM, MPKV, Rahuri at Sub-Campus, College of Agriculture, Pune. This programme was inaugurated by Dr. P. N. Rasal, Associate Dean, College of Agriculture, Pune in presence of Dr. S. M. Masalkar, Principal, College of Horticulture, Pune. Dr. Manzul Kumar Hazarika from AIT, Bangkok, Dr. Lav Khot, Dr. Sindhuja Sankaranand, Dr. David Brown from WSU, USA, Dr. Ganesh Bora from MSU, USA, Dr. Ramanan from Androit College, Malaysia, Dr. Siva K. Balasundram, UPM, Malaysia, Dr. S. D. Gorantiwar, Head, Agril. Engg., MPKV, Rahuri and PI, CAAST-CSAWM, MPKV, Rahuri, Dr. J. S. Pachpute Co-PI, CAAST-CSAWM, Pune and Organizing Secretary were present on this occasion. Dr. Goarantiwar gave a preamble on CAAST mentioning importance of Robotics, UAVs, IoTs and artificial intelligence in climate smart agriculture and water management with special emphasis on capacity building of the faculty and students. Total seven lectures were organized on different topics by eminent experts from Universities all over the world. This programme was attended by over 300 students and 30 faculties.

92. Farmers-Scientists Interface cum Workshop organized at Pune



January 9, 2020. A Farmers-Scientists Interface cum Workshop was organized by CAAST-CSAWM, MPKV, Rahuri in association with Indian Society of Agricultural Engineering (ISAE) at Sub-Campus, College of Agriculture, Pune. The programme was inaugurated by Dr. Indra Mani, President, ISAE. Dr. Ushamani P., Deputy General Manager, NABARD, Mr. Ajay Dhalpawar, Assistant General Manager, Technical Training, NETAFIM Irrigation Pvt. Ltd, Pune, Mr. Venkatesh Shete, Project Manager, Lupin Foundation, Pune in presence of Er. Sachin Kamble, Assistant General Manager, NABARD, Dr. R. D. Bansod, Head, Agril. Engg., COA, Pune, Dr. S. D. Gorantiwar, Head, Agril. Engg., MPKV, Rahuri, Organizing Secretary ISAE Convention and PI, CAAST-CSAWM, MPKV, Rahuri. This programme was attended by about 100 farmers from 6 villages. This programme included field visits to Hi-Tech Agricultural Park, mushroom production project, horticulture and Watershed Park during morning session and training cum interactive sessions by Dr. S. S. Magar, Former Vice Chancellor, DBSKKV, Dapoli on water management, Dr. V. M. Mayande, Former Vice Chancellor, Dr. PDKV, Akola on improved farm machineries, Digital irrigation by Netafim, Plant Protection by Dr. Bhute, mobile marketing by Mrs. Pragati Gokhale, Irrigation mobile

apps by Dr. Gorantiwar and Watershed Management by Dr. Bansod. Dr. Gajendra Singh and Dr. Indramani addressed during afternoon session.

February 2020

93. Farm Mechanization Day celebrated at ZARS, Solapur



February 14, 2020. Farm Mechanization Day was celebrated at the Zonal Agricultural Research Station, Solapur in co-ordination with the ICAR's AICRP on Farm Implements and Machinery Research Project, MPKV, Rahuri, Department of Agriculture, M. S., ATMA, Solapur, KVK, Mohol and KVK, Solapur. Vice Chancellor Dr. K. P. Viswanatha inaugurated the event. Dr. V. M. Mayande, the Chief Guest and former Vice Chancellor, Dr. PDKV, Akola addressed the farmers. Dr. S. R. Gadakh, Director of Research and Extension Education, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T and Dr. P. A. Turbatmath, former Associate Dean, PGI also guided the farmers on this occasion. Shri. Basavraj Biradar, DSAO, Solapur, Dr. Ajitkumar Deshpande, Former HoD, SS&AC, Dr. V. R. Shende, ADR, MPKV, Rahuri, Dr. V. M. Amrutsagar, ADR, ZARS, Solapur, Dr. B. D. Bhakre, HOD, SS&AC, Dr. Tulsidas Bastewad, PI, AICRP on FIM, Dr. V. A. Shinde, Principal, ATS, Solapur, Dr. Tanaji Walkunde, Head, KVK, Mohol and Dr. Lalasaheb Tambade, Head, KVK, Solapur were present for the programme. Various

demonstrations of farm implements were organized at Mulegaon farm. Booklets on farm mechanization were released during the programme. Progressive farmers adopting farm mechanization were felicitated on this occasion. Farmers, students, staff attended the programme.

94. Chattrapati Shivaji Maharaj Jayanti celebrated



February 19, 2020. The Birth Anniversary of Chattrapati Shivaji Maharaj was enthusiastically celebrated in the university. On this occasion Prof. Pradip Kadam, History Researcher and Vice Principal, Conquest College, Pimpri Chinchwad delivered a lecture on the life of King Shivaji. Vice Chancellor Dr. K.P. Viswanatha presided over the function. Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Sopan Kasar, Registrar, Dr. D. D. Pawar, Associate Dean, Dr. ASCAE&T, Dr. V. R. Shende, Associate Dean, PAHCOA, Halgaon and Prof. D. M. Gaikwad, Sports Officer were present on the dais. Fifty students of Dr.ASCAE&T brought *shivjyot* from Shivneri fort at a distance of 130 km. Staff and students were present for the function.

95. Training programme on Medicinal and Aromatic plants organized



February 20, 2020. A training programme on Medicinal and Aromatic plants was organized by the Medicinal and Aromatic Plants Research Project, MPKV, Rahuri in coordination with the Directorate of Arecanut and Spices Development Board, Calicut (Kerala). Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. Dr. Jeevan Murkute, Director, Nevi Techno Pvt. Ltd., Pune, Shri. Rushikesh Shinde, Director, Petricore Elaxrin Pvt. Ltd., Satara, Dr. Sharad Padhye, I/c HoD, Botany, Dr. Suresh Dodke, Wheat Specialist, Niphad and Prof. Prasanna Surana, I/O, Medicinal and Aromatic Plants Research Project were present on this occasion. More than 70 farmers and farm women participated in the training programme.

96. Training programme organized under RKVY Farmer FIRST project

February 19, 2020. A training programme on Sugarcane intercropping, Dairy and Poultry management was organized at MPKV, Rahuri for officers of Agriculture Department under the Rashtriya Krishi Vikas Yojana (RKVY) Farmer FIRST project. Dr. S. R. Gadakh, Director of Research and Extension Education inaugurated the programme. Dr. A. V. Solanke, Head, Department of Agronomy, Prof. M. N.



Desai, PI, RKVY FFP, Shri. R. K. Gaikwad, SDAO, Karjat, Shri. Sanjay Kachole, TAO, Shrirampur, Shri. Mahendra Thokle, TAO, Rahuri and Dr. Sunil Adangale, Co-PI, RKVY FFP were present on this occasion. Around 70 officers and staff of Agriculture Department participated in this training programme.

97. Scientific and technical visit to Vaishnavdham (Buchkewadi) village organized



February 20, 2019. The CAAST-CSAWM, MPKV, Rahuri had organized a visit on Agro climatic networking at Vaishnavdham (Buchkewadi) village, Tal. Junnar, Dist. Pune. On this occasion Dr. M. C. Ahire, Associate Dean, College of Agriculture, Dhule, Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM project, Mr. Chakradhar Borkute, Director of e-innovation technologies Pvt. Ltd, Mr. Nilesh Jondhale, Lupin Foundation, *Sarpanch, Upsarapanch*, all the Grampanchayat members, villagers, farmers and

Research Associates from CAAST-CSAWM project were present. During the exposure visit Dr. Gorantiwar briefed about the various activities that are being implemented under this project. Dr. Ahire also guided the farmers. The team visited the automatic weather station, IoT project, farm pond, cropping system, crop varieties, horticulture field, poultry, dairy, fisheries, organic fertilizer project and vermi composting project at Buchkewadi village.

98. Consultative workshop on Precision Water Management Technologies: Current Prospective and Opportunities



February 7, 2020. A one day consultative workshop on Precision Water Management Technologies: Current Prospective and Opportunities was organized by the Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), MPKV, Rahuri at central campus, Rahuri. This particular workshop contained two major events viz., brainstorming and meeting. During the brainstorming Dr. A. A. Atre, Principal Investigator, Lysimetric Project and Procurement Officer, CAAST-CSAWM and Professor of SWCE, Dr. M. G. Shinde, Co-Principal Investigator, Lysimetric Project; Co-PI, CAAST-CSAWM and Professor of SWCE were present. Dr. S. B. Wadatkar, Principal Investigator,

Lysimetric Project and Head, Dept. of IDE, Dr. PDKV, Akola, Dr. M. M. Deshmukh, Co-Principal Investigator, Lysimetric Project and Associate Professor of IDE, Dr. PDKV, Akola, Dr. A. N. Mankar, Co-Principal Investigator, Lysimetric Project and Associate Professor of IDE, Dr. PDKV, Akola and Dr. U. M. Khodke, Principal Investigator, Lysimetric Project and Associate Dean, College of Agril. Engg. & Technology, VNMKV, Parbhani, Dr. Harish Aware, Co-Principal Investigator, Lysimetric Project and Associate Professor of IDE, VNMKV, Parbhani and Dr. Vishal Ingale, Co-Principal Investigator, Lysimetric Project and Assistant Professor of IDE, VNMKV, Parbhani were present. Dr. S. D. Gorantiwar, Head, Dept. of Agril. Engg., MPKV, Rahuri; PI, CAAST-CSAWM, MPKV, Rahuri and Project Co-ordinator of Lysimetric project welcomed all the dignitaries and experts. Dr. R. T. Thokal, Chief Scientist, AICRP on Irrigation Water Management, Dr. BSKKV, Dapoli and Dr. D. S. Wane, Progressive farmer, Manori, Dist. Ahmednagar were present for the programme. Shri. Vijay Kolekar, Chief Agronomist, PoCRA, Mumbai and Shri. Rafiq Naikwadi, Agribusiness Specialist from State Department of Agriculture, PoCRA, Mumbai led both the events during the consultative workshop. During brainstorming Dr. Atre and Dr. Wadatkar presented the plans of the lysimetric project of their respective universities. During meeting, the plans for the installation of lysimeters, plans for the experimentation for crop coefficients of the specified crops with the lysimeters and methodology for the determination of crop coefficients and irrigation water requirement based on developed crop coefficients were discussed, whereas, the current scenario and use of newest technology in precision irrigation water management also discussed.

99. One day Training Programme on Application of Drones in Agriculture

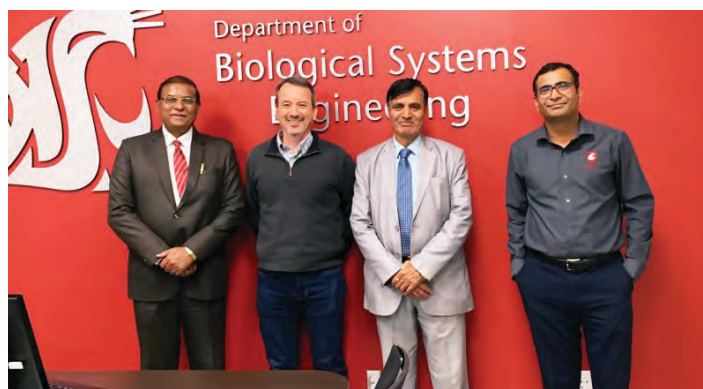


February 11, 2020. A one-day training programme on Application of Drones in Agriculture was organized by CAAST-CSAWM at MPKV, Rahuri. Dr. M. G. Shinde, Co-PI, CAAST-CSAWM, MPKV, Rahuri explained the various ongoing activities of the CAAST-CSAWM project as well as importance of drone technology in climate smart agriculture. Dr. S. M. Nalawade, Head, Farm Machinery and Power Engineering and Organizing secretary in his introductory remarks briefed about the training and applications of drone technology in agriculture in detail and the challenges to use this technology in farming. Mr. Ajit Jharjul from ASAP technology, LLP, Nasik and trainees from agriculture university of Coimbatore, Tamilnadu were present.

March 2020

100. Hon'ble Vice Chancellor and Dean, Faculty of Agriculture visited Washington State University (WSU), Pullman, USA

March 6-14, 2020. The Centre for Advanced Agricultural Sciences and Technology on Climate Smart Agriculture and Water Management is functioning at Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri under World Bank funded Indian Council of Agricultural Research (ICAR)-National Agricultural



Higher Education Project (NAHEP), New Delhi. As per the Detailed Project Report (DPR) of the project, there is a provision of the international short visit and assistance for faculty members for presenting a research paper (oral) or chairing a session or delivering a keynote address in an international scientific event such as conference/seminar/symposium/workshop etc. at different international collaborators of the CAAST-CSAWM project.

The Washington State University (WSU), Pullman, USA is serving as one of the key international collaborating institutes for CAAST-CSAWM, MPKV, Rahuri and is helping in developing the capacity amongst the faculties, scientists and students of MPKV, Rahuri for the development and adoption of 'Climate Smart Agriculture and Water Management' technologies and for development of framework of various programs of CAAST-CSAWM (e.g. short-courses to be offered at Postgraduate level and Post-doctoral program). Furthermore, Dr. K. P. Viswanatha, Hon'ble Vice-Chancellor and Dr. A. L. Pharande, Dean (F/A) were selected by the AU and approved by the NAHEP to undertake short visit to WSU, USA. The main objectives of the short visit were to sign the Memorandum of Understand (MoU) with Washington State University (WSU) and MPKV, to discuss exchange program of faculties and students of MPKV, and to explore the opportunities for collaborative

and sandwich program with WSU, USA and also to deliver the seminars on the topics "Climate Smart and Precision Agriculture" and "Agriculture Start-ups" at Pullman and Prosser Campuses at WSU with a view to brainstorm on the approaches to be adopted in the field of climate smart agriculture and water management and for international collaboration.

101. Action Plan Workshop of KVKs



March 9, 2020. The Annual Action Plan Workshop of 17 KVKs (western region) working under area jurisdiction of MPKV Rahuri was organized at MPKV, Rahuri. Dr. S. R. Gadakh, Director, Research and Extension Education, MPKV, Rahuri presided over the inaugural function. Dr. Y. G. Fulpagare, Associate Dean, PGI, Dr. S. A. Ranpise, Associate Dean, LAE, Dr. D. B. Yadav, Head, Department of Agril. Economics and Dr. V. R. Shende, Nodal Officer, PAHCoA, Halgaon were present on the dais. More than 150 SMS and staff of 17 KVKs participated in the workshop. Heads of Departments and scientists were present for the function. Publications of KVK, Dhule and KVK, Dahigaon-ne were released during the inaugural programme. The Action Plan of KVKs was finalized in this workshop through sessionwise technical discussions and suggestions made by university experts. The proceedings were finalized in the valedictory programme.



102. Farmers Rally organized under RKVY FFP at KVK, Dhule



March 13, 2020. A Farmers Rally was organized at KVK, Dhule under the Rashtriya Krishi Vikas Yojana (RKVY) Farmer FIRST project. Dr. S. R. Gadakh, Director, Research and Extension Education, MPKV, Rahuri inaugurated the event. Dr. M. C. Ahire, Associate Dean, College of Agriculture, Dhule presided over the programme. Dr. Y. G. Fulpagare, Associate Dean, PGI, MPKV, Rahuri, Dr. Suresh Dodke, Wheat Specialist, ARS, Niphad, Dr. M. S. Mahajan, Extension Agronomist, REC, Dhule, Dr. D. R. Nandre, Head and Programme Coordinator, KVK, Dhule, progressive farmer Adv. Prakash Patil were present on the dais.

103. MPKV students success in AIAU sports at Tirupati



March 3, 2020. The MPKV students' team achieved a grand success in the All India Agricultural Universities (AIAU) sports competition organized at

Sri Venkateswara Veterinary University, Tirupati. The MPKV team was the Runners up in this competition. The girls Kho-Kho team won the gold medal, while, the Table tennis team stood third winning the bronze medal. The boys team won the gold medal in volleyball, silver medal in basketball and bronze medal in kabbadi. In athletics, Miss. Shilpa Sangle won gold medals in 400 m run and long jump events. Miss. Shivani Naik won the silver medal in 100 m finals and bronze medal in 200 m finals. Yashraj Sawant won the bronze medal in 400 m event. The girls team won silver medal in 4 x 100 m relay event.

104. Shivar Pheri and Group Discussion organized under RKVY FFP



March 12, 2020. Shivar Pheri and Group Discussion was organized by MPKV, Rahuri at Manori village (Tal. Rahuri, Dist. Ahmednagar) under Rashtriya Krishi Vikas Yojana (RKVY) Farmer FIRST project. Dr. S. R. Gadakh, Director, Research and Extension Education, MPKV, Rahuri inaugurated the activity. Dr. Y. G. Fulpagare, Associate Dean, PGI, MPKV, Rahuri, Prof. M. N. Desai, Manager, Agriculture Technology Information Centre and PI, RKVY FFP, Krishi Bhushan Dr. Dattatraya Wane, Press Reporter Shri. Rajendra Wadekar, scientists and farmers were present on this occasion. The dignitaries and farmers visited the cattle project of Shri. Shankar Sapkal who is managing forty cows and experienced the benefits of loose housing

system. The team also visited the *Samadhan* variety plot of wheat of Shri. Wadekar. Prof. Desai and Shri. Babasaheb Adhav welcomed the dignitaries and farmers. Farmers in large number participated in this programme.

105. Effective steps taken by university in view of Coronavirus disease pandemic



March 23, 2020. The university took precautionary steps in the campus in view of the Coronavirus disease (COVID-19) pandemic situation. All measures prescribed by the Government are being followed. Use of sanitizers in all the offices and administrative building, post graduate building, DrASCAE&T building has been made compulsory. Social distancing has been made compulsory. Educational posters for awareness purpose have been published and displayed in the campus. The attendance of officers and employees has been made as per Government circulars during the lockdown period. The UG, PG and Ph. D. students' hostels have been sealed and strict monitoring has been observed at main gate.

106. Training programme on Communication Skills and Personality Development organized at Dhule

March 3-5, 2020. A training programme on Communication Skills and Personality Development was organized at College of Agriculture, Dhule under



the guidance of Dr. Milind Ahire, Associate Dean, AC, Dhule by Dr. Sandip Patil, Training Convener and I/C Professor of Agriculture Extension and Communication Section. Dr. Shashikant Khalane, I/C Head, Dept. of Psychology, ZB Patil College, Dhule; Prof. Vivian Thomas, Ex Professor, MPKV, Rahuri and Mr. Sushil Dhanavate, Hypnotist and Life Coach, Thane were the expert lecturers for the training programme. About 170 UG and PG students were benefitted by the training.

107. Expert visit regarding ESP, EAP and GRM to CAAST-CSAWM Project



March 5-7, 2020. An expert visit regarding ESP, EAP and GRM to CAAST-CSAWM Project, MPKV, Rahuri was held. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM briefed about the project. In this visit Mr. Ranjit Kumar Sahoo, Social Safeguard Specialist, NAHEP, New Delhi, Ms. Indira Prakash, Environmental Safeguard Specialist, NAHEP, New Delhi were present. During this visit Dr. Y. G.



Fulpagare, Associate Dean, PGI, MPKV, Rahuri Dr. M. C. Ahire, Associate Dean, COA, Dhule, Dr. S. D. Gorantiwar, PI, CAAST-CSAWM, Dr. M. G. Shinde, Co-PI, CAAST-CSAWM. Dr. S. B. Nandgude, I/C, PME Cell and Head, Dept. of SWCE, MPKV, Rahuri and Dr. P.L. Kulwal, Nodal Officer, ESP, MPKV, Rahuri were present. During this visit Dr. Gorantiwar presented objectivewise progress of the different activities, research and extension which were conducted under this project.

An interaction session was organized with students of MPKV, Rahuri with NAHEP experts, New Delhi. During this interaction session the students interacted with the experts. The 20 students who had successfully completed one-month International level training at AIT, Bangkok, Thailand and other students from central campus, Rahuri shared their experiences with the experts. After that the NAHEP experts took review regarding ESP, EAP and GRM activities and progress of university presented by nodal officers. They evaluated the progress by visiting the new building of CAAST-CSAWM.

108. Workshop on Social Science Course Curriculum Development for PG Diploma organized at Pune



March 7-8, 2020. A two day workshop on Social Science Course Curriculum Development for

Post Graduate Diploma in Climate Smart Agriculture and Water Management was organized at CAAST-CSAWM, Sub Centre, College of Agriculture, Pune with objective to finalize course contents of social science courses under module 1 and 4. This two days' workshop was started with an informal opening-cum-welcome ceremony by Dr. M. C. Ahire, Associate Dean, College of Agriculture, Dhule and Workshop Organizing Secretary. The inaugural function was chaired by Dr. K. D. Kokate, Former DDG (Agricultural Extension), ICAR, New Delhi and Director of Extension Education, MPKV Rahuri, co-chaired by Dr. V. V. Sadamate, Agricultural Extension Specialist and Former Advisor, Agriculture, Planning Commission, GoI, New Delhi and Dr. D. V. Deshpande, HoD, MDP and Professor, Centre for Management Development programme, VAMINICOM, Pune. Total 25 experts from different institutes participated in this two-day workshop.

109. Expert lecture on Aeroponics organized at MPKV, Rahuri



March 17, 2020. An Expert lecture on Aeroponics was organized by CAAST-CSAWM, MPKV, Rahuri for students and faculty. The expert lecture started with welcome ceremony in the presence of Dr. S. R. Gadakh, Director of Research and Extension Education. Dr. S. D. Gorantiwar, Principal Investigator, CAAST-CSAWM, Dr. M. G. Shinde, Co-Principal Investigator, CAAST-

CSAWM, faculty and CAAST-CSAWM members were present for the lecture. Er. K. Prabhu Sankar, Business Incubator and TBI Incubatee, Coimbatore delivered a lecture on Aeroponics. The expert shared his knowledge about aeroponics technology, climate control, toxin free plant protection process, automation, toxin free mineral nutrient regime, standard cultural practices for crops. He also explained the monitoring and analysis of aeroponics based farming through cloud infrastructure. He also gave the idea about the aeroponics crops and its revenue projection.

110. Farmers workshop on Advanced irrigation system and fertilizer management organized



March 4-6, 2020. A three days farmers workshop on Advanced irrigation system and fertilizer management was organized in collaboration with CAAST-CSAWM, Dept of IFD-IWM, MPKV, Rahuri and IFFCO, New Delhi. Dr. S.D. Gorantiwar, Principal Investigator, CAAST-CSAWM was the Convener of the workshop. The Organizing Secretary of the workshop was Dr. M. S. Mane, Head, Dept. of IFD-IWM. Topics on Information and communication technology for irrigation water management, micro irrigation concept, care, maintenance and operation, its advantages, its layout, fertilizer management through micro irrigation, use of organic farming for enhancing crop productivity,

management of onion crop were covered in this workshop by different experts from MPKV, Rahuri. Dr. Ranjit Kumar Sahoo, Social Safeguard Specialist and Dr. Indira Prakash, Environmental Safeguard Specialist, NAHEP (World Bank Expert) were present for the valedictory function of the workshop. Both of them gave their remarks. They appreciated about arrangement of such workshop for farmers and made them aware about the latest technologies about crop and irrigation management. Dr. Pradnya Jadhav, RA(IDE) and Dr. Mangal Patil RA (IDE) coordinated the workshop. Dr. D.D. Khedkar anchored the workshop. Dr. Mane expressed vote of thanks.

6. Awards

1. Seed Technology Research Centre awarded the Best Centre



April 7-9, 2019. The Seed Technology Research Centre of MPKV, Rahuri was awarded with the Best Centre in the Annual Meet of All India Coordinated Research Project on National Seed Project organized at the CCSHaryana Agriculture University, Hissar, Haryana. The meet was organized by the Project Directorate of ICAR-Indian Institute of Seed Science, Mau, Varanasi. MPKV's STRC unit was awarded the Best Centre award for 2018-19 at the hands of Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi. Dr. V. R. Shelar, Seed Research Officer, MPKV, Rahuri, Dr. A. V. Solanke, Head, Department of Agronomy and Chief Scientist, Seed, Dr. C. B. Salunkhe, Seed Production Officer and scientists received the coveted award.

2. Vice Chancellor Dr. K. P. Viswanatha conferred the honorary rank of Colonel

May 22, 2019. Vice Chancellor Dr. K. P. Viswanatha was conferred the honorary rank of Colonel (NCC) in the grand Investiture ceremony jointly organized by Dr Annasaheb Shinde College of Agricultural Engineering and Technology and 17 Maharashtra Battalion NCC (Aurangabad Group) at MPKV, Rahuri. This honorary rank was conferred to



Vice Chancellor Dr. K. P. Viswanatha by Maj. Gen. Gajendra Prasad, YSM, VSM, Add. DG (NCC), Maharashtra Directorate, Mumbai. In his acceptance speech Vice Chancellor Dr. K. P. Viswanatha thanked the NCC for conferring upon him this prestigious honorary rank of Colonel and further said that it is a great pride for him. Col. Jeevan Zhende of Ahemdagar 17 Maharashtra Batallion, Dr. A. L. Pharande, Dean, Faculty of Agriculture, Dr. S. R. Gadakh, Director of Research and Extension Education, Shri. Vijay Kote, Comptroller, Shri. Milind Dhole, University Engineer, Associate Deans Dr. P. A. Turbatmath, Dr. S. A. Ranpise, Heads of Department, university scientists, staff, NCC cadet and students were present in large number.

3. Vice Chancellor Dr. K. P. Viswanatha felicitated with Prof. S. Kannaiyan Memorial Award-2018

September 25, 2019. Vice Chancellor Dr. K. P. Viswanatha was felicitated with Prof. S. Kannaiyan Memorial Award-2018 in the 11th NABS-National Conference held at Pondicherry University, Puducherry. The award consists of a citation and certificate. Dr. Viswanatha was awarded for his significant contribution in education, research and extension education. Dr. Gurmeet Singh, Vice Chancellor, Pondicherry University, Puducherry, Dr. P. Duraiswamy, Vice



Chancellor, Madras University, Chennai and Dr. R. R. Hanchinal, Former Chairperson, Plant Variety Protection and Farmers' Rights Authority, New Delhi felicitated Dr. Viswanatha with this prestigious award. As a Vice Chancellor of MPKV, Rahuri Dr. Viswanatha has initiated many activities which has improved the university's ranking at national level. He has also initiated the cleanliness campaign in the university. He has called for Clean University Green University campaign.

4. ICAR Farmer FIRST woman farmer Mrs. Savita Vaibhav Nalkar felicitated with the Innovative Farmer Award 2019-20 at NAARM, Hyderabad



September 1, 2019. Mrs. Savita Vaibhav Nalkar, participant woman farmer of Chinchvihire village of ICAR Farmer FIRST programme was felicitated with the Innovative Farmer Award 2019-20 at ICAR-NAARM, Hyderabad. Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR, New Delhi felicitated Mrs. Nalkar with the memento,

certificate on the occasion of the foundation day of NAARM. Dr. Chi. H. Srinivasrao, Director, NAARM, Dr. S. K. Soham, Director, Extension, Dr. Bharat Sontakki, Principal Scientist, Dr. Venkatesh, Shri. Y. Venkateshwar Rao, Padmashree awardee farmer were present on this occasion. Mrs. Nalkar has successfully demonstrated the integrated farming system model through ICAR Farmer FIRST programme on her farm. Her IFS model comprises of dairy, goat rearing, farm pond fishery, backyard poultry apart from crop demonstrations on bajra, red gram, fodder crops and pomegranate cultivation.

5. Vice Chancellor Dr. K. P. Viswanatha awarded the LIFE TIME ACHIEVEMENT AWARD at International Conference on GRISAAS-2019 held at ICAR-NAARM, Hyderabad



October 20-22, 2019. Vice Chancellor Dr. K. P. Viswanatha was felicitated with LIFE TIME ACHIEVEMENT AWARD of Astha Foundation at International Conference on GRISAAS-2019 held at ICAR-NAARM, Hyderabad. The award consists of a citation and certificate. The Executive Committee of the Astha Foundation conferred this prestigious award to Vice Chancellor Dr. K. P. Viswanatha for his outstanding contribution in the field of Plant Breeding on the occasion of International Conference on Global Research Initiatives for Sustainable Agriculture and



Allied Sciences (GRISAAS-2019). Dr. S. P. Singh, President, Astha Foundation and S. Rani, General Secretary felicitated Dr. Viswanatha with this prestigious award.

6. CSRS, Padegaon awarded the Excellent Performer Award



October 14-16, 2019. MPKV's Central Sugarcane Regional Station, Padegaon was awarded the Excellent Performer Award for the year 2018-19 for its contribution in sugarcane research. The CSRS, Padegaon team led by Dr. B. S. Raskar, Sugarcane Specialist received the award at the hands of Dr. R. K. Singh, ADG (CC), ICAR, New Delhi and Dr. A. D. Pathak, Director and Project Coordinator, Sugarcane, ICAR-IISR, Lucknow during the Annual Group Meet of AICRP on Sugarcane organized at UAS, Dharwad (Karnataka). This centre has rich contribution in sugarcane research and released prominent sugarcane varieties which have benefited the farmers.

7. MPKV ICAR Farmer FIRST programme adjudged Best Presentation Award

January 3, 2020. The ICAR Farmer FIRST programme of MPKV, Rahuri was presented with the Best Presentation Award in the Annual Review Meeting held at KVK, Babhaleshwar. Dr. P. B. Kharde, PI and Dr. S. S. Sadaphal, Co-PI received the certificate at the hands of Dr. Lakhan Singh, Director, ICAR-ATARI, Zone-VIII, Pune. Krishi Vigyan Kendras and ICAR



FFPs from Maharashtra and Gujarat states participated in the two days Annual Review Meeting. ICAR FFPs from MPKV, Rahuri, NAU, Navsari and JAU, Junagadh presented their reports. Dr. R. K. Singh, Former Head, Department of Agril. Economics, CSAAUT, Kanpur, Dr. Sambhaji Nalkar, Head, KVK, Babhaleshwar were present on the dais. MPKV's ICAR FFP is being implemented in Chinchvihire and Kangar villages and it is focusing on integrated farming system for sustainable income to the farmers.

8. KVK, Dhule received the Best Stall Award in Krishi Vijay-2020



February 2020. The MPKV's Krishi Vigyan Kendra, Dhule received the Best Stall Award in Krishi Vijay-2020. The Western Region Agriculture Fare Exhibition (Krishi Vijay 2020) was organized at Gwalior by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV), Gwalior in association with the

Central Ministry of Agriculture and Farmer Welfare, Government of India. Eight State and two Union Territories of Western Region of India participated in this exhibition. KVK, Dhule participated in this exhibition and displayed the various agricultural technologies. Farmers in large number visited the stall and got information on these technologies. The award was received by Dr. Dinesh Nandre, Senior Scientist and Head, KVK, Dhule, Dr. Pankaj Patil, SMS, PP and Dr. Dhanraj Chaudhary, SMS, ASDS at the hands of Shri. M. B. Ojha, Commissioner, Agriculture, Madhya Pradesh and Dr. S.K. Rao, Vice Chancellor, RVSKVV, Gwalior.

9. Vice Chancellor Dr. K. P. Viswanatha Awarded the Lifetime Achievement Award



December 6-7, 2019. Vice Chancellor Dr. K. P. Viswanatha was awarded with Lifetime Achievement Award in the National Seminar on Pluralistic Extension for enhancing farmers income through reaching the unreached organized by Maharashtra Society of Extension Education. Vice Chancellor Dr. Viswanatha was honored for his contribution to education, research and extension education. A two-day National Seminar on Agricultural Extension was organized at Mahatma Phule Agricultural University by the Department of Agricultural Extension and Communication and Maharashtra Society of Extension Education, Akola

on Pluralistic Extension for enhancing farmers income through reaching the unreached. The award included a memento and a citation. Dignitaries Dr. Ashok Dalwai, Chief Executive Officer, National Rainfed Area Authority and Chairman, Committee on Doubling of Farmers Income, Dr. R.R. Sinha, Founder, MSEE and former DEE, Dr. PDKV, Akola, Dr. K. Narayan Gowda, former Vice Chancellor, of UAS, Bangalore and Dr. Lakhan Singh, Director, ICAR-ATARI were present.

10. Dr. M. C. Ahire felicitated with Best Extension Scientist Award



December 6-7, 2019. Dr. M. C. Ahire, Head, Department of Agril. Extension and Communication was felicitated with the Best Extension Scientist Award by Maharashtra Society of Extension Education during the National Seminar on Pluralistic Extension for enhancing farmers income through reaching the unreached organized by Department of Agricultural Extension and Communication and Maharashtra Society of Extension Education, Akola.

11. Dr. B. D. Bhakare elected as Councilor



Dr. B. D. Bhakare Head, Department of Soil Science and Agricultural Chemistry, Mahatma Phule Krishi Vidyapeeth, Rahuri was elected as the Councilor of Indian Society of Soil Science, New Delhi out of 30 candidates

in India. The official announcement was made at the Annual Workshop held at Banaras Hindu University, Varanasi, Uttar Pradesh. The Indian Society of Soil Science is one of the leading societies in the field of soil science in India and also runs the Indian Journal of Soil Science quarterly. The Society has a total of 53 divisions in India.

12. Dr. P. B. Kharde Awarded first prize for Best Paper Presentation



December 6-7, 2019. Dr. P. B. Kharde, Officer Incharge, Communication Center, MPKV, Rahuri was felicitated with the Best Paper Presentation Award (First prize) in the National Seminar on Pluralistic Extension for enhancing farmers income through reaching the unreached organized by Department of Agricultural Extension and Communication and Maharashtra Society of Extension Education, Akola.

7. Human Resource

7.1 Executive Officers

Sr. No.	Executive Officer		Period
1	The Chancellor	Hon'ble Shri. C. Vidyasagar Rao	30 August, 2014 to 4 September, 2019
		Hon'ble Shri Bhagat Singh Koshyari	5 September, 2019 to till date
2	The Pro Chancellor	Hon'ble Shri. Chandrakant (Dada) Patil	1 May, 2018 to Oct. 2019
		Hon'ble Shri. Dadaji Bhuse	30 December 2019 to till date
3	The Vice Chancellor	Hon'ble Dr. K.P. Viswanatha	31 December, 2015 to till date

7.2 Executive Council Members list (1 April, 2019 to 31 March, 2020)

Sr. No.	Category	Hon. Member	Address	Period
1	Ex-officio Chairman	Dr. K. P. Viswanatha, 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	Commissionerate of Agril., Central Building, Pune	--
3	Ex-officio Member	Regional Joint Director of Animal Husbandry nominated by Commissioner of Animal Husbandry	Veternary Dispensary, Near Ashok Stambha, Nashik	--
4	Ex-officio Member	Director of Horticulture	Near Superintendant 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	01/09/2017 to 31/08/2019
				24/09/2019 to 23/09/2021
7	Nominated Member (Nominated by V.C.)	Dean (Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	01/09/2017 to 31/08/2019
				24/09/2019 to 23/09/2021



8	Ex-officio Member	Regional Dy. Director of Fisheries, Nasik nominated by Fisheries Commissioner, Govt. of Maharashtra	Old Govt. Ashwin Barrel No.13, Near Divisional Commisssior Office, Nashik Road, Nashik	--
9	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	--
10	Member (Agriculture Scientist)	Dr. Bhaskar Rustamrao Patil	Shahunagar, Khamgaon road, Chikhli, Dist. Buldhana	11/08/2016 to 10/08/2019
11	Member (Agriculture Scientist)	Dr. Bandi Venkateswarlu	House no. 5-5-552, Plot no. 30, Abhyudayanagar, L B Nagar, Hyderabad	31/08/2019 to 30/08/2022
12	Member (Progressive Farmers 05)	Shri. Tushar Balasaheb Pawar	A/P Belwade Haveli, Tal Karad, Dist Satara.	08/02/2018 to 07/02/2021
13		Shri. Nathaji Dattatray Chowgule	A/P Malwadi, Kotvali, Tal. Panhala, Dist. Kolhapur	30/07/2018 to 29/07/2021
14		Saw. Sunita Jaywant Patil	A/P Binchur (Bhavaninagar) Tal. Valva, Dist. Sangli	30/07/2018 to 29/07/2021
15		Dr. Pankajkumar Suresh Mahale	Plot. No. 65, Jay Hind Colony, Deopur, Dhule	30/07/2018 to 29/07/2021
16		Dr. Vijayprakash Kisanrao Thombre	A/P Mangalvar Peth, Kej, Dist. Beed	30/07/2018 to 29/07/2021
17	Member (ICAR Nominate) (One)	Dr. K. V. Prasad	Director, ICAR- Directorate of Floriculture Research, College of Agriculture Campus Pune	15/03/2017 to 14/03/2020
18	Agro Industrialist (One)	Shri. Dattatray Bhavusaheb Pansare	Shri Dattakrupa Niwas, Line No. 02, Banglow no. 2, Opposite Shilpa guardan, Manik Nagar, Ahmednagar	25/7/2019 to 05/03/2020
19	Member (Member Maharashtra Legislative Assembly-03)	Hon. MLA, Shri. Shivajirao Kardile	A/P Burhanagar, Tal. & Dist. Ahmednagar	21/12/2015 to 10/11/2019
20		Hon. MLA, Shri. Bhausaheb Malhari Kamble	Gondhawani, Ward No.01, Shrirampur, Dist- Ahmednagar	21/12/2015 to 31/08/2019
21		Hon. MLA, Shri. Rahul Jagtap	A/P Pimpalgaon Pisa, Tal- Shrigonda, Dist-Ahmednagar	21/12/2015 to 10/11/2019



22	Member (Member Maharashtra Legislative Council-02)	Hon. MLC, Shri. Prakash Gajbhiye	Sai Prabhu Apartment, Ravi Nagar Chawk, Nagpur	05/10/2015 to 06/06/2020
23		Hon. MLC, Shri. Narendra Darade	A/P Bhabulgaon, Tal. Yeola, Dist. Nashik	06/02/2019 to 21/06/2024
24	Member (Chairman of Agril.Committee of ZP) (Two)	Vacant Post	--	--
25		Vacant Post	--	--
26	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
27	Invitee	Comptroller	Mahatma Phule Krishi Vidyapeeth, Rahuri	--

7.3 Academic Council Members (1 April 2019 to 31 March 2020)

Sr. No.	Category	Hon. Member Name / Designation	Address	Remark
1	Ex-officio Chairman	Dr. K. P. Viswanatha, 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 Instructions	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. ASCAE, 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	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	Head, Department of Agronomy	Mahatma Phule Krishi Vidyapeeth, Rahuri	
16	Ex-officio Member	Head, Dept. of Animal Science and Dairy Science	Mahatma Phule Krishi Vidyapeeth, Rahuri	
17	Ex-officio Member	Head, Department of Agril. Botany	Mahatma Phule Krishi Vidyapeeth, Rahuri	
18	Ex-officio Member	Head, Department of Soil Sci. & Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
19	Ex-officio Member	Head, Department of Agril. Economics	Mahatma Phule Krishi Vidyapeeth, Rahuri	
20	Ex-officio Member	Head, Department of Agril. Engineering	Mahatma Phule Krishi Vidyapeeth, Rahuri	
21	Ex-officio Member	Head, Department of Agril. Entomology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
22	Ex-officio Member	Head, Department of Agril Extension	Mahatma Phule Krishi Vidyapeeth, Rahuri	
23	Ex-officio Member	Head, Department of Horticulture	Mahatma Phule Krishi Vidyapeeth, Rahuri	
24	Ex-officio Member	Head, Department of Plant Pathology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
25	Ex-officio Member	Head, Dept. of Food Science & Technology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
26	Ex-officio Member	Head, Department of Bio-Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
27	Ex-officio Member	Head, IFD-Irrigation Water Management	Mahatma Phule Krishi Vidyapeeth, Rahuri	
28	Ex-officio Member	Head, Department Agril. Meteorology	College of Agriculture, Pune	
29	Ex-officio Member	Head, Department of Farm Machinery & Power, Mech. Engg., Physics,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
30	Ex-officio Member	Head, Department of Irri.& Drainage Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
31	Ex-officio Member	Head, Dept. of Soil & Water Conservation Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	



32	Ex-officio Member	Head, Department of Agril. Process Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
33	Ex-officio Member	Head, Department of Farm Structure, Rural Elect., Civil & Elect. Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
34	Ex-officio Member	Soils Specialist	Agril. Research Station, Solapur	
35	Ex-officio Member	Sugarcane Specialist	Central Sugarcane Research Station, Padegaon	
36	Ex-officio Member	Oilseeds Specialist	Oilseeds Research Station, Jalgaon	
37	Ex-officio Member	Wheat Specialist	Wheat Research Station, Niphad, Dist. Nashik	
38	Ex-officio Member	Student Welfare Officer	Mahatma Phule Krishi Vidyapeeth, Rahuri	
39	Ex-officio Member Secretary	Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	
Invitee Member (As per decision of AC (68) held on 15/2/96, vide subject No. 2)				
40	Invitee	Associate Director of Research	NARC, Sub-Montane Zone, Shenda Park, Kolhapur	
41	Invitee	Associate Director of Research	NARC, Plain Zone, Ganeshkhind, Pune	
42	Invitee	Associate Director of Research	NARC, Western Ghat Zone, Igatpuri, Dist. Nashik	
43	Invitee	Associate Director of Research	NARC, Scarcity Zone, Raviwarpeth, Solapur	
Invitee Member (As per decision of AC (95) held on 14/02/11)				
44	Invitee	Principal	College of Horticulture, Pune	
Invitee Member (As per decision of AC (98) held on 14/02/13)				
45	Invitee	Associate Director of Research	Office of the Directorate of Research, MPKV, Rahuri	
Co-opt Members (As per subject no. 6 of AC held on 25/09/2018)				
46	Co-opt. Member	Dr. R. B. Deshmukh	Former Vice Chancellor, MPKV, Rahuri Raj Banglow, 46, Vrindwan, Sector A/B, Co operative Housing Society, Panchwati, Pashan, Pune-411008	6/9/2018 to 5/9/2020



47	Co-opt. Member	Dr. K. E. Lawande	Former Vice-Chancellor, Dr. BSKKV, Dapoli C7, Nisarg Phase II, Kaspate Vasti, Wakad, Pune 411 057	6/9/2018 to 5/9/2020
48	Co-opt. Member	Dr. V. M. Mayande	Former Vice Chancellor, Dr. PDKV, Akola B-504, Mont Vert, Biarritz-2, Baner-Pashan Link road, Pune 411 021	6/9/2018 to 5/9/2020
49	Co-opt. Member	Dr. K. V. Prasad	Director, ICAR- Directorate of Floriculture Research, College of Agriculture Campus Pune 411 005	6/9/2018 to 5/9/2020
Principal of Affiliated Colleges (MAU Act 1983, Section 33 (2) (viii) read with Statute 4 (viii))				
50	Ex-officio Member	The Principal	College of Agril. Business Management, Narayangaon, Dist. Pune	
51	Ex-officio Member	The Principal	College of Agriculture, Akulj, Dist-Solapur	
52	Ex-officio Member	The Principal	College of Agril. Biotechnology, Vidyanagari, Bhigwan Road, Baramati, Dist-Pune	
53	Ex-officio Member	The Principal	College of Agriculture, Ambi, Tal-Wadgaon Maval, Dist-Pune.	
54	Ex-officio Member	The Principal	K.K.Wagh College of Agriculture, Nasik, Dist-Nasik	
55	Ex-officio Member	Nodal Officer	College of Agriculture, Muktainagar, Jalgaon	
56	Ex-officio Member	Nodal Officer	College of Agriculture, Halgaon, Dist. Ahmednagar	



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.A.L.Pharande	37400-67000 +10000 AGP + 4000 SPLA	01.04.2019	31.03.2020
2.	Director of Research	Dr.S.R.Gadakh	37400-67000 +10000 AGP + 4000 SPLA	01.04.2019	31.03.2020
3.	Director of Extension Education	Dr.S.R.Gadakh Holding additional charge	37400-67000 +10000 AGP + 4000 SPLA	01.04.2019	31.03.2020
4.	Associate Dean (PGI)	Dr.P.A.Turbatmath	37400-67000 +10000 AGP + 3000 SPLA	01.04.2019	31.08.2019
		Dr. Y.G.Phulpagare Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.09.2019	31.03.2020
5.	Associate Dean, Agril. Engineering	Dr.D.D.Pawar	37400-67000 +10000 AGP + 3000 SPLA	01.04.2019	31.03.2020
6.	Associate Dean (LAE)	Dr.S.A.Ranpise Addl. Charge	37400-67000 +10000 AGP	01.04.2019	31.03.2020
7.	Associate Dean, College of Agril. Dhule	Dr.A.M.Musmade Holding additional charge	37400-67000 +10000 AGP	01.04.2019	31.12.2019
		Dr.M.C.Ahire Holding additional charge	37400-67000 +10000 AGP	01.01.2020	31.03.2020
8.	Associate Dean, College of Agril.Pune	Dr.P.N.Rasal	37400-67000 +10000 AGP + 3000 SPLA	01.04.2019	22.01.2020
		Dr.G.G.Khot Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	23.01.2020	31.03.2020
9.	Associate Dean, College of Agril.Kolhapur	Dr.G.G.Khot Holding additional charge	37400-67000 +10000 AGP	01.04.2019	22.01.2020
		Dr.P.N.Rasal	37400-67000 +10000 AGP + 3000 SPLA	23.01.2020	31.03.2020
10.	Associate Dean, College of Nandurbar	Dr.S.B.Kharbade	37400-67000 +10000 AGP + 3000 SPLA	01.04.2019	31.03.2020
11.	Associate Dean, College of Agril.Karad	Dr.R.R.Surywanshi Holding additional charge	37400-67000 +10000 AGP + 3000 SPLA	01.04.2019	31.03.2020



7.5 Academic Staff- Head of Department (Annual Report 1.04.2019 to 31.03.2020)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Head, Department of Agronomy	Dr.A.V.Solanki Holding additional charge	37400-67000 +10000 AGP	01.04.2019	31.03.2020
2.	Head, Department of Soil Science & Agril. Chemistry	Dr.A.D.Kadlag Addl.Charge	37400-67000 +10000 AGP	01.04.2019	17.07.2019
		Dr.B.D.Bhakre	37400-67000 +10000 AGP	18.07.2019	31.03.2020
3.	Head, Department of Agril. Botany	Dr.R.W.Bharud	37400-67000 +10000 AGP	01.04.2019	31.05.2019
		Dr.A.S.Jadhav Addl.Charge	37400-67000 +10000 AGP	01.06.2019	31.03.2020
4.	Head, Department of Entomology	Dr.C.S.Patil, Addl.Charge	37400-67000 +10000 AGP	01.04.2019	17.07.2019
		Dr.C.S.Patil	37400-67000 +10000 AGP	18.07.2019	31.03.2020
5.	Head, Department of Pathology	Dr.C.D.Deokar Addl.Charge	37400-67000 +12000 AGP	01.04.2019	31.05.2019
		Dr.T.K.Narute Addl.Charge	37400-67000 +10000 AGP	01.06.2019	17.07.2019
		Dr.T.K.Narute	37400-67000 +10000 AGP	18.07.2019	31.03.2020
6.	Head, Department of Horticulture	Dr.S.A.Ranpise	37400-67000 +10000 AGP	01.04.2019	31.03.2020
7.	Head, Department of Animal Science & Dairy Science	Dr.Y.G.Fulpagare Holding additional charge	37400-67000 +10000 AGP	01.04.2019	31.03.2020
8.	Head, Department of Food Science & Technology	Dr.U.D.Chavan Holding additional charge	37400-67000 +10000 AGP	01.04.2019	17.07.2019
		Dr.U.D.Chavan	37400-67000 +10000 AGP	18.07.2019	31.03.2020
9.	Head, Department of Agril. Engineering	Dr.S.D.Gorantiwar Addl. Charge	37400-67000 +10000 AGP	01.04.2019	18.07.2019
		Dr.S.D.Gorantiwar	37400-67000 +10000 AGP	19.07.2019	31.03.2020
10.	Head, Department of Agril. Meteorology	Dr.J.D.Jadhav Holding Additional Charge.	37400-67000 +10000 AGP	01.04.2019	31.03.2020



Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
11.	Head, Department of Extension Education	Dr.M.C.Ahire	37400-67000 +10000 AGP	01.04.2019	31.12.2019
		Dr.S.B.Shinde Holding Additional Charge.	37400-67000 +10000 AGP	01.01.2020	31.03.2020
12.	Head, Department of Agril. Economics	Dr.D.B.Yadav	37400-67000 +10000 AGP	01.04.2019	31.03.2020
13.	Sugarcane Specialist, Padegaon	Dr.B.S.Raskar	37400-67000 +10000 AGP	01.04.2019	31.03.2020

7.6 Other Officers (Annual Report 1.04.2019 to 31.03.2020)

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Registrar	Dr.S.R.Kasar	37400-67000 + 8700 AGP	01.4.2019	31.03.2020
2.	Comptroller	Shri.V.A.Kote	15600-39100 + 6600 AGP	01.04.2019	31.03.2020
3.	Students Welfare Officer	Dr.M.R.Chavan Holding additional charge	15600-39100 + 6600 AGP	01.04.2019	31.03.2020
4.	University Librarian	Dr. K.N.Patil Holding additional charge	37400-67000 + 10000 AGP	01.04.2019	31.01.2020
		Shri. A. B. Deshmukh Holding additional charge	37400-67000 + 10000 AGP	01.02.2020	31.03.2020
5.	University Engineer	Shri.M.P.Dhoke	15600-39100 + 7600 AGP	01.04.2019	31.03.2020
6.	Sports Officer	Shri.D.M.Gaikwad Holding additional charge	15600-39100 + 6600 AGP	01.04.2019	31.03.2020
7.	Medical Officer	Dr. (Smt.) V.R.Hile	9300-34800+ 4400 AGP	01.04.2019	31.03.2020



7.7 University Manpower

Sr. No.	Name of Post	Pay Scale (Rs.)	Sanctioned Post	Filled Post	Vacant Post
Group A					
1	Vice-Chancellor	Fix Pay Rs. 75,000+5000	1	1	0
2	Registrar	37400-67000 GP 8700	1	1	0
3	Director of Research	37400-67000 AGP 10000 +SPL 4000	1	1	0
4	Director of Extension Education	37400-67000 AGP 10000 +SPL 4000	1	0	1
5	Director of Instructions And Dean, Faculty of Agriculture,	37400-67000 AGP 10000 +SPL 4000	1	1	0
6	Associate Dean (Agri.)	37400-67000 AGP 10000 +SPL 3000	8	2	6
7	Associate Dean (Food Science & Technology)	37400-67000 AGP 10000 +SPL 3000	1	0	1
8	Associate Dean (Agril Engineering)	37400-67000 AGP 10000 +SPL 3000	1	1	0
9	Head of Department	37400-67000 AGP 10000	12	9	3
10	Professor of Agronomy	37400-67000 AGP 10000	11	4	7
11	Professor of Soil Science and Agril.Chemistry	37400-67000 AGP 10000	6	2	4
12	Professor of Bio Chemistry	37400-67000 AGP 10000	1	1	0
13	Professor of Food Science and Technology	37400-67000 AGP 10000	1	0	1
14	Professor of Irrigation and Water Management	37400-67000 AGP 10000	1	1	0
15	Professor of Agril.Botany	37400-67000 AGP 10000	17	9	8
16	Professor of Agril. Entomology	37400-67000 AGP 10000	6	1	5



17	Professor of Plant Pathology	37400-67000 AGP 10000	9	4	5
18	Professor of Horticulture	37400-67000 AGP 10000	9	4	5
19	Professor of Animal Science and Dairy Science	37400-67000 AGP 10000	6	2	4
20	Professor of Agril. Economics	37400-67000 AGP 10000	5	2	3
21	Professor of Agril. Extension	37400-67000 AGP 10000	5	3	2
22	Professor of Statistics	37400-67000 AGP 10000	2	0	2
23	Professor of Soil and Conservation Engineering	37400-67000 AGP 10000	2	2	0
24	Professor of Agril. Process Engineering	37400-67000 AGP 10000	2	2	0
25	Professor of Irrigation and Drainage Engineering	37400-67000 AGP 10000	3	0	3
26	Professor of Farm Power Machinery	37400-67000 AGP 10000	5	0	5
27	Professor of Physics	37400-67000 AGP 10000	1	0	1
28	Professor of Electric Engineering	37400-67000 AGP 10000	1	0	1
29	Professor of Civil Engineering	37400-67000 AGP 10000	1	0	1
30	Professor of Mathematics	37400-67000 AGP 10000	1	0	1
31	Associate Director of Research	37400-67000 AGP 9000	3	0	3
32	Professor of Food Process Technology	37400-67000 AGP 10000	1	0	1
33	Professor of Food Safety and Quality	37400-67000 AGP 10000	1	0	1
34	Professor of Food Process Engineering	37400-67000 AGP 10000	1	0	1



35	Professor of Food Business Management	37400-67000 AGP 10000	1	0	1
36	Professor of Food Plant Operations	37400-67000 AGP 10000	1	0	1
37	University Librarian	37400-67000 AGP 10000	1	0	1
38	Asso.Prof, Agronomy	37400-67000 AGP 9000	42	34	8
39	Asso.Prof, Agril.Botany	37400-67000 AGP 9000	32	25	7
40	Asso.Prof, Bio Chemistry	37400-67000 AGP 9000	3	3	0
41	Asso.Prof, Soil Science and Agril.Chemistry	37400-67000 AGP 9000	22	15	7
42	Asso.Prof, Agril. Entomology	37400-67000 AGP 9000	15	8	7
43	Asso.Prof, Plant Pathology	37400-67000 AGP 9000	18	12	6
44	Asso.Prof, Animal Science and Dairy Science	37400-67000 AGP 9000	15	11	4
45	Asso.Prof, Agril. Economics	37400-67000 AGP 9000	11	7	4
46	Asso.Prof, Horticulture	37400-67000 AGP 9000	30	22	8
47	Asso.Prof, Agril. Extension	37400-67000 AGP 9000	11	8	3
48	Asso.Prof, Statistics	37400-67000 AGP 9000	2	2	0
49	Asso.Prof, English	37400-67000 AGP 9000	1	0	1
50	Asso.Prof, Hindi /Marathi	37400-67000 AGP 9000	2	0	2
51	Asso.Prof, Food Science and Technology	37400-67000 AGP 9000	1	1	0
52	Asso.Prof, Soil and Conservation Engineering	37400-67000 GP 9000	6	5	1
53	Asso.Prof, Agril. Process Engineering	37400-67000 AGP 9000	6	4	2
54	Asso.Prof, Farm Power Machinery	37400-67000 AGP 9000	4	2	2
55	Asso.Prof, Irrigation and Drainage Engineering	37400-67000 AGP 9000	4	2	2
56	Asso.Prof, Physics	37400-67000 AGP 9000	1	0	1
57	Asso.Prof, Veterinary Science	37400-67000 AGP 9000	2	1	1
58	Asso.Prof, Food Process Technology	37400-67000 AGP 9000	2	0	2



59	Asso.Prof, Food Safety and Quality	37400-67000 AGP 9000	2	0	2
60	Asso.Prof, Food Process Engineering	37400-67000 AGP 9000	2	0	2
61	Asso.Prof, Food Business Management	37400-67000 AGP 9000	2	0	2
62	Asso.Prof, Food Plant Operations	37400-67000 AGP 9000	2	0	2
63	Asst.Prof, Agronomy	37400-67000 AGP 9000	65	33	32
64	Asst.Prof, Soil Science and Agril.Chemistry	15600-39100 AGP 6000	36	31	5
65	Asst.Prof, Bio Chemistry	15600-39100 AGP 6000	5	3	2
66	Asst.Prof, Food Science and Technology	15600-39100 AGP 6000	2	0	2
67	Asst.Prof, Agril.Botany	15600-39100 AGP 6000	52	40	12
68	Asst.Prof, Agril. Entomology	15600-39100 AGP 6000	46	30	16
69	Asst.Prof, Plant Pathology	15600-39100 AGP 6000	45	35	10
70	Asst.Prof, Animal Science and Dairy Science	15600-39100 AGP 6000	26	12	14
71	Asst.Prof, Agril. Economics	15600-39100 AGP 6000	20	15	5
72	Asst.Prof, Horticulture	15600-39100 AGP 6000	49	39	10
73	Asst.Prof, Agril. Extension	15600-39100 AGP 6000	20	14	6
74	Asst.Prof, Veterinary Science	15600-39100 AGP 6000	5	3	2
75	Asst.Prof, Statistics	15600-39100 AGP 6000	10	6	4
76	Asst.Prof, Mathematics	15600-39100 AGP 6000	2	2	0
77	Asst.Prof, Agril. Meteorology	15600-39100 AGP 6000	3	1	2
78	Asst.Prof, English	15600-39100 AGP 6000	3	2	1
79	Asst.Prof, Home Science	15600-39100 AGP 6000	1	0	1
80	Asst.Prof, Soil and Conservation Engineering	15600-39100 AGP 6000	4	0	4
81	Asst.Prof, Food Process Technology	15600-39100 AGP 6000	3	0	3
82	Asst.Prof, Food Safety and Quality	15600-39100 AGP 6000	3	0	3



83	Asst.Prof, Food Process Engineering	15600-39100 AGP 6000	2	0	2
84	Asst.Prof, Food Business Management	15600-39100 AGP 6000	3	0	3
85	Asst.Prof, Food Plant Operations	15600-39100 AGP 6000	9	7	2
86	Asst.Prof, Agril. Process Engineering	15600-39100 AGP 6000	7	3	4
87	Asst.Prof, Farm Power Machinery	15600-39100 AGP 6000	7	4	3
88	Asst.Prof, Irrigation and Drainage Engineering	15600-39100 AGP 6000	11	10	1
89	Asst.Prof, Physics	15600-39100 AGP 6000	1	0	1
90	Asst.Prof, Electric Engineering	15600-39100 AGP 6000	1	1	0
91	Asst.Prof, Civil Engineering	15600-39100 AGP 6000	1	0	1
92	Asst.Prof, Mechanical Engineering	15600-39100 AGP 6000	1	1	0
93	Student Welfare Officer (College level)	15600-39100 AGP 6600	1	0	1
94	Student Welfare Officer (University level)	15600-39100 AGP 6600	1	0	1
95	Deputy Registrar	15600-39100 GP 6600	2	2	0
96	Medical Officer	9300-34800 GP 5400 (MBBS) 9300-34800 GP 4600	2	1	1
97	Asst.Registrar / Asst.Compt.	9300-34800 GP 4600	23	11	12
98	Deputy University Engg.	15600-39100 GP 6900	1	0	1
99	Sports officer	15600-39100 GP 6600	1	0	1
100	Security Officer	9300-34800 GP 4600	1	0	1
101	PA to V.C.	9300-34800 GP 4600	1	1	0
102	Asstt.Engg. (Civil)	9300-34800 GP 5400	1	1	0
103	Physical Training Instructor	15600-39100 GP 6000	8	4	4



104	College Librarian	15600-39100 GP 6000	7	3	4
105	University Engineer	37400-67000 GP 7600	1	1	0
106	Comptroller	37400-67000 GP 6600	1	1	0
107	Pay and Account officer	9300-34800 GP 4600	3	3	0
	Total Group A		866	535	331
	Group B				
1	Office Superintendent	9300-34800 GP4400	32	20	12
2	Superintendent(Computer)	9300-34800 GP4400	1	1	0
3	Superintendent (Deputation)	9300-34800 GP4400	3	1	2
4	Asstt. Superintendent.	9300-34800 GP4300	55	36	19
5	Stenographer (H.G.)	9300-34800 GP4400	9	4	5
6	Stenographer (L.G)	9300-34800 GP4300	18	4	14
7	Junior/ Sec. Engineer (Civil)	9300-34800 GP4200/4400	10	7	3
8	Junior/ Sec. Engineer (Electric)	9300-34800 GP4200/4400	5	2	3
9	Junior/ Sec. Engineer (Meca.)	9300-34800 GP4200/4400	0	1	-1
10	Sr. Tech. Asstt.	9300-34800 GP4200/4300	2	0	2
11	Chief Artist	9300-34800 GP4300	1	0	1
12	Movie Cameraman	9300-34800 GP4300	1	0	1
13	Sr.Res.Asstt.	9300-34800 GP4400	127	71	56
14	Veterinary Officer	9300-34800 GP4200/4400	3	0	3
	Total Group B		267	147	120
	Group C				
1	Sr.Clerk		150	105	45
2	Steno Typist		11	4	7
3	Clerk-Cum-Typist		226	176	50
4	Technical Asstt.(Lib)		1	1	0
5	Chief-Cataloguer		7	3	4
6	Issue Asstt.		9	4	5
7	Draughtsman		7	4	3



8	Tracer		7	2	5
9	Sr. Mechanic		4	1	3
10	Jr. Mechanic		3	2	1
11	Technical Asstt.		4	4	0
12	Mechanical Supervisor		1	1	0
13	Foremen Supervisor		2	1	1
14	Farm Mechanic		4	0	4
15	Fitter-Cum-Mechanic Turner		1	0	1
16	Fitter		6	5	1
17	Turner		3	3	0
18	Machinist		1	0	1
19	Foundryman		3	1	2
20	Audio Visual Operator		4	1	3
21	Carpenter		12	8	4
22	Welder		3	2	1
23	Wireman		24	11	13
24	Compounder (Medical)		2	1	1
25	FoundrymanCompounder(Vet.)		4	3	1
26	Nurse		1	1	0
27	Photographer		2	0	2
28	Artist-Cum- Photographer		4	4	0
29	Dark Room Asstt.		2	0	2
30	Asstt. Security Officer		1	1	0
31	Plumber		6	3	3
32	Maistry		12	5	7
33	Surveyer		1	1	0
34	Pump Operator		3	2	1
35	Telephone Operator		2	1	1
36	Compositor		2	2	0
37	Printer		1	1	0
38	Sr.Artist Technical Asstt.		1	1	0
39	Blacksmith		6	2	4
40	Electrician		3	1	2
41	Jeep Driver		67	37	30



42	Tractor Driver		17	6	11
43	Mechanic-Cum Electrician		1	1	0
44	Computer Operator		3	0	3
45	Agril. Asstt.		598	472	126
47	Live-Stock Supervisor		5	6	-1
48	Jr.Vet. Officer		2	1	1
49	Jr.Res.Asstt.		171	94	77
	Group C		1410	985	425
	Group D				
1	Laboratory Attendent		44	28	16
2	Library Attendent		8	4	4
3	Counter		54	29	25
4	Massion		4	1	3
5	Mali		56	28	28
6	Security Gard		15	7	8
7	Peon		181	133	48
8	Watchman		153	89	64
9	Labor		1192	750	442
10	Sweeper		23	21	2
	Group D		1730	1090	640
	Total (A+B+C+D)		4273	2757	1516

8. Campus Development Activities

Rahuri Region completed work in 2019-20

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Replacment of damaged window, door shutter E & F boys hostel at Dr. ASCAET at C.C., Rahuri	574009.00	ICAR-SAU	Work is completed
2	Providing BB coba water proofing to 2nd floor terrace (East side) E boys hostel at Dr. ASCAET at C.C., Rahuri	414090.00	ICAR-SAU	Work is completed
3	Providing BB coba water proofing to F hostel at Dr. ASCAET at C.C., Rahuri	865445.00	ICAR-SAU	Work is completed
4	Providing internal OBD colouring of F boys hostel at Dr. ASCAET at C.C., Rahuri	410894.00	ICAR-SAU	Work is completed
5	Construction of attached toilet block to existing KVPS office at MPKV, Rahuri (2nd call)	266675.00	University Receipt	Work is completed
6	Providing internal OBD colouring of E boys hostel at Dr. ASCAET at C.C., Rahuri	410894.00	ICAR-SAU	Work is completed
7	Providing chain link fencing with UCR to vegetable office complex (onion/tomato scheme) at C.C., Rahuri	696115.00	Product testing	Work is completed
9	Providing strong room facility and renovation at examination hall room no. 29 Dr. ASCAET at C.C., MPKV, Rahuri	161169.00	ICAR-SAU	Work is completed
10	Water proofing to Dr. Annasaheb Shinde auditorium for Dr. ASCAET at C.C., MPKV, Rahuri	230762.00	ICAR-SAU	Work is completed
11	The work of Providing & fixing colour coated zincalume profiled sheets by replacment old A.C. Sheets, Structural steel works to Pluse Imp. Project at C C., Rahuri	243178.00	Revolving fund	Work is completed
12	Repairs and renovation to quarter No. E-2,10,54, D-13 and F-55 by water proofing, toilet flooring dado colouring and other allied works at C.C., Rahuri	296001.00	Maint & Repairs	Work is completed
13	Construction of store shed to NARP Dry land centre (Agro Forestry) Agronomy department at C.C., Rahuri	560954.00	Bamboo Project	Work is completed
14	Proposed chain link fencing to library building at C.C., Rahuri	565655.00	ICAR-SAU	Work is completed



15	Renvation of flooring doors, windows celing and other allied items for lecture hall (GF) for Agril Chemistry and soil science in agril Faculty building at C.C., Rahuri	819054.00	ICAR-SAU	Work is completed
16	Renovation fo Acoustic boards, water proofing coloring doors windows and other allied items for lecture hall no. 124 in agril chemistry and soil science in Agril Faculty building at C.C., Rahuri	660151.00	ICAR-SAU	Work is completed
17	Construction of farm shed for AICRP on Agroforestry at MPKV, Rahuri	1560024.00	Bamboo Project	Work is completed
18	Construction of structural steel shed for displaying informations boards at horticulture at C.C., Rahuri	430393.00	Revolving fund (Horticulture)	Work is completed
19	Construction of various building for horticulture department at C.C., Rahuri	3675600.00	Revolving fund (Horticulture)	Work is completed
20	Providing colouring for internal passage and other allied works in post graduate institute at Central Campus, Rahuri	260500.00	ICAR-SAU	Work is completed
21	Construction of Gene Bank at Central Campus Mahatma Phule Krishi Vidyapeeth, Tal-Rahuri, Dist- Ahmednagar	25515465.00	State Plan	Work is completed
22	Electrification work for Gene Bank project at Central campus MPKV, Rahuri	2500000.00	State Plan	Work is in progress
23	Engineering, Fabricating, supplying, installing testing commissioning of thermal insulation works, refrigeration plant and the associated electrical works for Gene Bank Project, MPKV, Rahuri	13977852.00	State Plan	Work is completed
24	Construction of class rooms at Nursery of Horticulture department at C.C., Rahuri	1125274.00	Revolving und (Horticulture)	Work is completed

Rahuri Region progress work in 2019-2020

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Providing cupboard shutter for E & F Boys hostel Dr. ASCAET building at C.C., Rahuri	800966.00	ICAR-SAU	Work is in progress
2	Providing external coloring to Class room, Toilets & Staircase of Dr. ASCAET at C.C., Rahuri	856817.00	ICAR-SAU	Work is in progress
3	Providing external coloring to lab & toilet block of Dr. ASCAET at C.C., Rahuri	863042.00	ICAR-SAU	Work is in progress
4	Providing acoustic wall paneling alluminum sliding window & internal OBD colouring to lecture hall A & B at Dr. ASCAET at C.C., Rahuri	396944.00	ICAR-SAU	Work is in progress
5	Providing acoustic wall paneling alluminum sliding window & internal OBD colouring to lecture hall C & D at Dr. ASCAET at C.C., Rahuri	396944.00	ICAR-SAU	Work is in progress
6	Supply installation testing commissioning operation and maintenance of solarsteam cooking system (4Nos) for boys/girls hostel mess (capacity 300 stuents per day) in the Jurdiction of MPKV, Rahuri	10646820.00	ICAR-SAU	Work is in progress
7	Renovation of Acoustic boards, water proofing coloring doors windows and other allied items for lecture hall no. 125 in agril chemistry and soil science in Agril Faculty building at C.C., Rahuri	658251.00	ICAR-SAU	Work is in progress
8	Supplying fixing and erecting of V.T. Pump sets substation transformers metering unit and water meter for lift irrigation scheme for central campus of MPKV, Rahuri	23750506.00	RKVY	Work is in progress
9	construction of Girls hostel for Dr. Annasaheb Shinde college of Agri. Engineering and Technology at C.C., MPKV, Rahuri	19798998.00	ICAR-SAU	Work is in progress
10	Construction of Girls hostel for UG students at C.C., MPKV, Rahuri	57890175.00	State Plan	Stay is given
11	Construction of Girls hostel for PG students at C.C., MPKV, Rahuri	54045600.00	State Plan	Stay is given
12	Construction of various building for organic farming Project at C.C., Rahuri	11089400.00	State Plan	Work is in progress
13	Providing internal and external colouring to Adminstrative Building at C.C., Rahuri	1753290.00	Maint & Repairs	Work is in progress



14	Construction of intake well, intake pipe line, jackwell with pump house and foot bridge for Lift Irrigation scheme for C.C., Rahuri	15206009.00	RKVY	Work is in progress
15	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	102797821.00	RKVY	Work is in progress
16	Construction of administrative building boys & girls hostel at Punyashlok Ahilyadevi Holkar Agriculture College, Halgaon, Tal-Jamkhed, Dist - Ahmednagar	242789000.00	State Plan	Work is in progress
17	External electrification Providing electric supply, street lights and other amenities at Punyashlok Ahilyadevi Holkar college of Agriculture Halgaon, Tal-Jamkhed, Dist- Ahmednagar	9876041.00	State Plan	Work is in progress
18	Providing internal electrification to the college building, Hostels, Library, Amenity building, Gymkhana, Guest house and Residential quarters at Punyashlok Ahilyadevi Holkar College of Agriculture, Halgaon, Tal-Jamkhed, Dist- Ahmednagar	13461093.00	State Plan	Work is in progress

Pune Region completed work in 2019-2020

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Renovation to the Girls hostel block (3 Nos) at Agriculture Technical School, Manjri, Dist-Pune	3645383.00	Maint & Repairs Special grants	Work is completed
2	Repairs to road surface from kahirewadi gate to main building to Agriculture College, Pune	1211619.00	Maint & Repairs Special grants	Work is completed
3	Water proofing to tarrace slab & renovation to toilet block for library building at A.C., Pune	855669.00	ICAR-SAU	Work is completed
4	Repairs & Renovation toilet block on 2 nd floor Girls hostel at A.C., Pune	698901.00	ICAR-SAU	Work is completed
5	Renovation to the toilet block of Agronomy building & water proofing to terrace slab at A.C., Pune	765530.00	ICAR-SAU	Work is completed
6	Renovation of Electrification to lecture hall & computer lab (1 st floor) at Horticulture College, Pune	249510.00	ICAR-SAU	Work is completed



7	Providing Air conditioner to bio tech lab at A.C., Pune	265860.00	ICAR-SAU	Work is completed
8	Renovation of Electrification to labs & office rooms at ground floor of Horticulture College, Pune	265793.00	ICAR-SAU	Work is completed
9	Providing Air conditioner in Shirname hall at A.C., Pune	265196.00	ICAR-SAU	Work is completed
10	Water proofing to the dome area to old main building at A.C., Pune	413040.00	ICAR-SAU	Work is completed
11	Water proofing to jack arch roof slab of chemistry building at A.C., Pune	906255.00	ICAR-SAU	Work is completed
12	Construction of toilet block of Gents & Ladies at Dairy Section at A.C., Pune	503860.00	ICAR-SAU	Work is completed
13	Providing LED tube light fittings to B,C,D & E boys hostel at A.C., Pune	441314.00	ICAR-SAU	Work is completed
14	Internal electrification to Shirname hall at Agriculture College, Pune	261306.00	Maint & Repairs Special grants	Work is completed
15	Providing LED tube light fittings to girls hostel at A.C., Pune	356575.00	ICAR-SAU	Work is completed
16	Providing electrification to the seed sales counter near main entrance gate of Horticulture College, Pune	141616.00	University Receipt	Work is completed
17	Fixing of Broken Glass pans for rooms of boys hostel, construction of platforms for drinking water coolers and other allied works for Boys hostel at Agril. College, Pune	286891.00	ICAR-SAU	Work is completed

Pune Region progress work in 2019-2020

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Construction of Grils hostel of College of Agriculture, Pune for MPKV, Rahuri	20593708.00	ICAR-SAU	Work is in progress
2	Construction of Auditorium at College of Agriculture, Pune	63154800.00	State Plan	Stay is given
3	Construction of Girls hostel for UG students for College of Agriculture, Pune	62649710.00	State Plan	Stay is given



Dhule Region completed work in 2019-2020

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Renovation of lecture hall, office with plastering colouring PVC carpet for extension building at Agriculture College, Dhule	286593.00	ICAR-SAU	Work is completed
2	Providing false ceiling colouring to laboratory lecture hall to dairy section at Agriculture College, Dhule	293357.00	ICAR-SAU	Work is completed
3	Renovation by providing water proofing replacement of drainage line water supply of library at Agriculture College, Dhule	261908.00	ICAR-SAU	Work is completed
4	Providing inverter for examination hall at College of Agriculture, Dhule	150274.00	ICAR-SAU	Work is completed
5	Renovation of electrification work and replacing existing tube fitting by energy saving LED Panel lights for examination hall at College of Agriculture, Dhule	238641.00	ICAR-SAU	Work is completed
6	Renovation by providing false ceiling with internal colouring to examination hall at A.C., Dhule	853153.00	ICAR-SAU	Work is completed
7	Renovation of electrification work to old Quarter at Nimkhedi farm, ARS, Jalgaon	144817.00	Maint & Repairs	Work is completed
8	Renovation of electrification work of Girls Hostel at ATS, Jalgaon	72366.00	Maint & Repairs	Work is completed
9	Providing BB Coba water proofing to NB-1, NB-2 type Qtr at ARS, Niphad, Dist- Nashik	148293.00	University Receipt	Work is completed
10	Providing internal electrification to the office building, Hostels, Library, Amenity building, Gymkhana, Guest house and Residential quarters at Agriculture College, Muktainagar, Dist- Jalgaon	14835836.00	State Plan	Work is completed
11	Providing external electrification and street lights to the office building, Hostels, Library, Amenity building, Gymkhana, Guest house and Residential quarters at Agriculture College, Muktainagar, Dist- Jalgaon	12506571.00	State Plan	Work is completed
12	Supplying Installation testing and commissioning of automatic electric fraction passenger LIFT at Administrative Building at College of Agriculture, Muktainagar, Dist- Jalgaon	1485619.00	State Plan	Work is completed



13	Construction of administrative building boys & girls hostel at Agriculture College, Muktainagar, Dist- Jalgaon	209572000.00	State Plan	Work is completed
14	Providing ON GRID roof top solar Energy systems for Adminisitrative building boys hostel and girls hostel at Agriculture College, Muktainagar, Dist- Jalgaon	1651669.00	State Plan	Work is completed

Dhule Region progress work in 2019-2020

Sr. No.	Name of work	Estimated Cost	Fund Head	Remark
1	Renovation of drainage line overhead and ground waters tank at A.C., Dhule (2nd Call)	5616996.00	Maint & Repairs Special grants	Work is in progress
2	Construction of Auditorium at College of Agriculture, Dhule	52067200.00	State Plan	Stay is given
3	Construction of Girls hostel for UG students for College of Agriculture, Dhule	58441510.00	State Plan	Stay is given

Kolhapur Region progress work in 2019-2020

Sr. No.	Name of Work	Estimated Cost	Fund Head	Remark
1	Construction of half covered threshing yard at NARP, Shenda Park, Kolhapur	2064473.00	ICAR-SAU	Work is in progress
2	Construction of rat proof godown at NARP, Shenda Park, Kolhapur	2657744.00	ICAR-SAU	Work is in progress
3	Construction of Auditorium at College of Agriculture, Kolhapur	56137600.00	State Plan	Stay is given
4	Construction of Girls hostel for UG students for College of Agriculture, Kolhapur	62649710.00	State Plan	Stay is given
5	Construction of Building and infrastructure facilities for Krantisinh Nana Patil Government College of Food Technology at Peth, Tal-Walwa, Dist-Sangli	381517281.00	State Plan	Stay is given
6	Construction of Lab for Maize Project	2113252.00	Product Testing	Work is in progress



9. The Financial Status of Universities

During the Financial Year 2019-2020 the grants of Rs.296,14,90 thousand have been received from Government of Maharashtra under Non-Plan Sector, out of these the expenditure of Rs.296,14,90 thousand has been incurred.

The grants of Rs.25,97,35 thousand have been received under Plan Scheme against which the expenditure of Rs.16,11,35 thousand has been incurred.

ICAR, New Delhi, Govt. of India and State Government (other Dept.) grants of Rs.55,80,10 thousand have been received & expenditure out of these grants is Rs.47,72,12 thousand.

During the Financial Year 2019-2020 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. Thosuannd)
1.	State Govt. 01- Crop. Husb. (Non-Plan Scheme) (24150025)		
	1) (04) Pension Payment	147,70,00	147,70,00
	2) (31) Asstt. Grants (Non- Salary)	7,02,26	7,02,26
	3) (36) Asstt. Grants (Salary)	138,87,78	138,87,78
	Total Rs.	293,60,04	293,60,04
2.	State Govt. 03 – Ani. Husb. (Non-Plan Scheme) (24150197)		
	1) (36) Asstt. Grants (Non- Salary)	7,70	7,70
	2) (31) Asstt. Grants (Salary)	2,47,16	2,47,16
	Total Rs.	2,54,86	2,54,86
	(Non-Plan) Total Rs.	296,14,90	296,14,90
3.	State Govt. 01- Crop.Husb. (Plan Scheme) (24150072) (2415 1086)		
	1) (31) Asstt. Grants (Non – Salary)	1,20,00	1,20,00
	2) (35) Asstt. Grants for Capital Creations.	17,50,00	7,64,00
	3) (36) Asstt. Grants (Salary)	7,27,35	7,27,35
	Total Rs.	25,97,35	16,11,35
4.	College of Agriculture, Nandurbar (24158291)	2,70,00	2,70,00
5.	E.B.C. Scholarship (24150938)	19,68,94	19,68,94
6.	D.C.P.S. State Govt. Share (24151021)	3,40,81	3,40,81
7.	ICAR (75:25) Schemes 75 % Share / Govt. of India etc. Grant -in-aid Schemes	55,80,10	47,72,12
8.	University Revenue Receipts Financial : The Revenue generated by the University during F.Y. 2019-2020 is Rs. 47.58 Crore. From the University Revenue Receipt Rs. 45.34 Crore allotted to various Schemes for Contingency expenditure for various office and farm activities and for capital for various revolving funds.		







Mahatma Phule Krishi Vidyapeeth

Rahuri - 413 722, Dist. Ahmednagar (Maharashtra)
www.mpkv.ac.in