

Annual Report

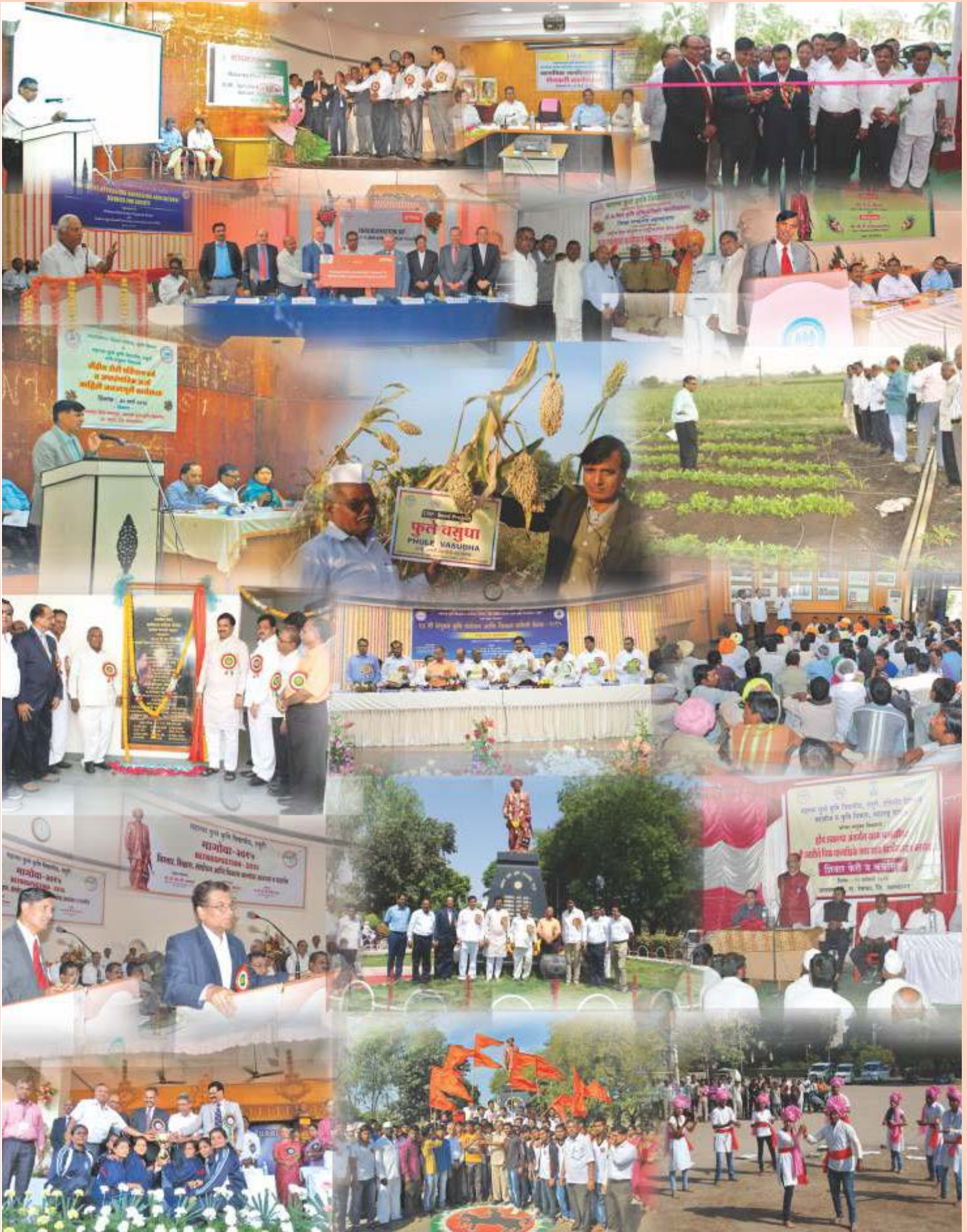
2015-2016



Mahatma Phule Krishi Vidyapeeth

Rahuri - 413722. Dist. Ahmednagar (Maharashtra)

www.mpkv.ac.in



ANNUAL REPORT

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FOREWORD

The Annual Report of Mahatma Phule Krishi Vidyapeeth, Rahuri for 2015-2016 recounts the year long activities and programmes in the fields of Education, Research and Extension. It is the result of dedicated efforts of the faculty, scientists, officials, employees, workers and students of this University. Introduction of new academic programmes, projects and schemes and construction of new buildings, new publications and new administrative decisions and resolutions went hand in hand with the progress of the University despite several odds. 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 Members of the Executive Council of the University immensely supported our efforts. We express our sincere gratitude for their support, guidance and help from time to time.

During the year, there were 13 JRF and 3 SRF at the Post Graduate Institute, Mahatma Phule Krishi Vidyapeeth, Rahuri. A majority of the students secured scholarships 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.

Research work carried out through various departments, research projects and schemes in the university contributed to new varieties of crops, farm implements and technologies for the benefit of the farmers. Seeds and grafts of various field crops and plantation crops were produced and made available to the farmers.

Mahatma Phule Krishi Vidyapeeth, Rahuri is in the forefront for farm advisory to the farmers of the region. Therefore, thousands of farmers visited the Central Campus and other Colleges and Research Stations. The faculty and the scientists of the University guide them through the field demonstrations, group discussions, publications and laboratories regarding technologies generated by the University for their socio-economic benefit. The response of the farmers is quite encouraging and satisfactory.

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

(K. P. Viswanatha)



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1. Salient Achievements

Mahatma Phule Krishi Vidyapeeth, Rahuri established on 20th Oct., 1969 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 achievements are :

1. The university is imparting graduate level education in Agriculture and allied subjects through eight constituent colleges viz., Colleges of Agriculture, Pune, Dhule, Kolhapur, Karad, Nandurbar and Muktainagar, Dr. Annasaheb Shinde College of Agricultural Engineering, Rahuri and College of Horticulture, Pune. The intake capacity of students at the constituent undergraduate colleges was 784.
2. As per the new education policies, 64 affiliated colleges are functioning for imparting the Agricultural and allied education in university jurisdiction. It includes 27 Agricultural, 05 Horticulture, 08 Food Science, 09 Agril. Business Management, 06 Agril. Bio Technology, 08 Agricultural Engineering and 01 Animal Husbandry colleges.
3. The intake capacity of the students at the affiliated colleges for B.Sc. (Agri.) course was 2640, B.Sc. (Hort.) 240, B.Tech. (Agril. Engg.) 440, B.Sc (Agri. Bio.Tech.) 360, BBM (Agri.) 440 and B.Tech. (Food Tech.) 480 and Animal Husbandry 30. A total of 4630 students were admitted in the first year.
4. A new constituent College of Agriculture has been started in 2015 at Muktainagar, Dist. Jalgaon with intake capacity of 60 students per year.
5. The intake capacity of the students for Doctoral Degree Programme was 78 and Master Degree Programme was 294 for Agriculture, 26 for Horticulture, 8 for Bio Technology, 60 for MBA and 16 for Agricultural Engineering .
6. Two foreign students were admitted for Post graduate programme.
7. During the year 2015-16, 13 students were in receipt of Junior Research Fellowship and 3 Senior Research Fellowship.
8. Thirteen students of PGI, MPKV, Rahuri have qualified NET Examination during academic year 2015-16.
9. Seven students of Dr. ASCAE, Rahuri received "State Level NSS Best Volunteer Awards" from the



Maharashtra Government.

10. Shri. D. M. Gaikwad, Programme Officer for NSS was awarded with the “Best Programme Officer Award.”
11. The Blood donation camp was organized with the help of Civil Surgeon, Ahmednagar on 26th January, 2016 at Central Campus, Rahuri. Hon. Vice Chancellor, MPKV, Rahuri Dr. K.P.Viswanatha, inaugurated the blood donation camp. Total 155 blood bottles were donated by the students and staff of MPKV, Rahuri.
12. The University Library organized One Day “Workshop on KOHA : Open Source Software and Library Automation” on 12th Feb., 2016 under the chairmanship of Dr. K. P. Viswanatha Hon. Vice Chancellor, MPKV, Rahuri and chief guest was Dr. K. Veeranjneyulu, University Librarian, Prof. Jayashankar Telangana State Agricultural University, Hyderabad in collaboration with M/S Informatics Publishing India Pvt. Ltd., Bangalore. About 45 College Librarians of Agriculture Colleges under MPKV, Rahuri were the participants of the workshop.
13. A book viz., “Library and Information Services” for NCC PGS-501 written by Prof. Prakash A. Shinde and Dr. B.T. Munde was released by the auspicious hands of Dr. K. P. Viswanatha, Hon. Vice Chancellor, MPKV, Rahuri on 12 Feb., 2016.
14. For the capacity building of faculty the 211 faculty members and 208 students proceeded for Winter School/Summer School/Refresher courses National International Conference at various places of the country during the year 2015-16.
15. The workshop on Personality Development and Stress Management was organized by Post Graduate Institute, MPKV, Rahuri from 29.10.2015 to 2.11.2015.
16. A guest lecture of Dr. D. R. Biswas, Principal Scientist, Division of Soil Science and Agril. Chemistry, IARI, New Delhi and Secretary, ISSS, New Delhi on the topic “Enrichment of Compost for Improved Nutrient Supply” was organized by the Rahuri Chapter of Indian Society of Soil Science on 5.3.2015 in the Seminar Hall of the Department of Soil Science and Agril. Chemistry, MPKV, Rahuri.
17. Dr. P.K.Chhonkar, Adjunct Faculty, IARI/CAU, Shillong, Ex-Head & Prof. ICAR, Emeritus Scientist, Past President of Indian Society of Soil Science and Formerly Member of Executive Council, National Academy of Agricultural Sciences delivered lectures on 31.7.2015 and 1.8.2015 in Dr. Annasaheb Shinde Auditorium Central campus, MPKV, Rahuri on the following topics:
 - a. How to attain excellence in science?
 - b. Developing attitude for improving work place and home environment
 - c. Attitudinal and behavioral aspects of those excelling in science
18. Dr. R.C.Chaudhari, Chairman, PRDF foundation, Gorakhpur deliver guest lecture on 7.8.2015
19. Dr.B.K. Narayana Swamy, Former Professor and Head, Dept. of Extension, Sociology, Psychology, English and Distance Education, UAS, Bangalore, Karnataka delivered guest lecture on topic “Strategies For Development Of Faculty And Students” on 18.5.2015 in the A.V.Hall.
20. Guest lecture of Dr. S.C.Kotur, Ex. Principal Scientist, Indian Institute of Horticulture Research, Hissargatta, Bangloru (KA) on “Nutritional Management of Banana” was organized on 23rd



- March, 2015 in Seminar Hall, Department of Soil Science and Agril. Chemistry, MPKV, Rahuri.
21. Dr. K. Narayana Gauda, Ex. Vice Chancellor, UAS, Bangalore, delivered lecture on the topic “Efficient utilization of natural resources for empowerment of India” on 27.10.2015.
 22. Training course was conducted by Department of Horticulture on Pre and Post Harvest management for Enhanced Fruit Production from 9th Sept. 2015 to 29th Sept. 2015. Total 17 trainees were participated in it.
 23. Dr. ASCAE, PGI, Rahuri and Civil Hospital, Ahmednagar jointly organized Blood Donation Camp and Free Blood Group Checkup Camp. Total 156 donors donated their blood on 15th August, 2015.
 24. On the occasion of International Year of Soils - 2015 the Rahuri Chapter of Indian Society of Soil Science, Department of Soil Science and Agril. Chemistry organized State Level Seminar on Soil Health Awareness: A Prerequisite to Yield Sustainability on 21 December, 2015.
 25. Dr. Sahadeva Singh, Chief Policy Advisor (AIASA) and Mr. Kundan Singh, Deputy Chairman (ABM), AIASA delivered guest lecture followed by an interactive session with students and faculties on “Carrier opportunities and agricultural administrative reforms in India and role of AIASA in carrying forward the agenda”.
 26. Annual Prize Distribution Ceremony of Dr. ASCAE, Rahuri was organized on 28-29 March, 2016. Hon’ble Vice Chancellor Dr. K. P. Viswanatha, presided over the Annual Prize Distribution Ceremony. The Chief guest for the ceremony was renowned lyricist Shri. Babasaheb Saudagar Patil and famous actress Sau. Kavita Bai Saudagar Patil. Dr. K. D. Kokate, Director of Extension Education, Dr. B. R. Ulmek, Dean, F/A and DI, Dr. P. A. Turbatmath, Associate Dean, Dr. ASCAE, Rahuri and Heads of the Departments were present on stage. All the students, Professors and non-teaching staff attended the function.
 27. Annual Prize Distribution Programme was held on 15th February, 2016 in Main Building Pandal, College of Agriculture, Kolhapur. Hon. Shri. Sanjay Avate, Chief Editor, Sam T.V. Pune graced the occasion as a chief guest. Dr. G. G. Khot, Associate Dean, College of Agriculture, Kolhapur was president for the function.
 28. Dr. S.G.Borkar, Head, Department of Plant Pathology and Agril. Microbiology had submitted five patents to Govt. of India for approval.
 29. Dr. S.D.Gorantiwar, Head, Dept. of IDE delivered a lecture on Soil based Water Requirement of Crops under Prime Minister Irrigation Scheme on 25.8.2015 at Khadadkwasla, Pune.
 30. Dr. S. A. Kadam was conferred with “Engineering Achievement Award” for excellent performance and remarkable work in Engineering field by the Institution of Engineers (India), Ahmednagar local centre on 48th Engineers Day at Ahmednagar.
 31. College of Agriculture, Dhule received National Level Agrocare “Best Agriculture College” Award – 2015.
 32. PGI, MPKV, Rahuri received Best Performance Award in the event of “Innovative Trends in Chemical Physical & Biosciences” (ITCPB 2016).
 33. Dr. S. N. Puri, Former Vice Chancellor, MPKV, Rahuri and CAU, Imphal visited the college of Agriculture, Kolhapur on 15/4/2015.
 34. Er. Vikram Sali, Dy.SP Bhandara visited Dr. ASCAE, Rahuri on 21.1.2016 and guided the students.



35. Inter Collegiate Tournaments - 2015-16

S. No.	Event	Organizing College	Duration	Winner	Runner
1	Mallkhamb	AC, Rajmachi	10 th & 11 th July 2015	College of Food Tech., Maldad	AC, Baramati
2	Chess (M)	AC, Rajmachi	10 th & 11 th July 2015	College of Agriculture, Pune	College of Agril Business Management, Narayangaon
	Chess (W)	AC, Rajmachi	10 th & 11 th July 2015	AC, Pune	ABM, Narayangaon
3	Football (Men)	MIT College of Food Technology, Loni, Kalbhor	19 th & 20 th August 2015	College of Agriculture, Baramati	CAET, Talsande
4	Badminton (M)	College of Agricultural Business Management, Loni	23 rd & 24 th July 2015	AC, Maldad	ASCAE, MPKV, Rahuri
5	Badminton (W)	College of Agricultural Business Management, Loni	23 rd & 24 th July 2015	AC, Vilad Ghat	ASCAE, MPKV, Rahuri
6	Table Tennis (M)	College of Agricultural Business Management, Loni	23 rd & 24 th July 2015	ASCAE, Rahuri	AC, Dhule
7	Table Tennis (W)	College of Agricultural Business Management, Loni	23 rd & 24 th July 2015	AC, Pune	ASCAE, Rahuri
8	Football (M)	MIT College of Food Technology, Loni Kalbhor	19 th & 20 th August 2015	AC, Baramati	CAET, Talsande
9	Kabaddi (M)	Central Campus, Rahuri	4 th & 5 th September 2015	AC, Sonai	ABM, Baramati
10	Kabaddi (W)	Central Campus, Rahuri	4 th & 5 th September 2015	AC, Baramati	AC, Rethare
11	Volley Ball (M)	Lokmangal College of Agriculture, Wadala	10 th & 11 th September 2015	AC, Kolhapur	AC, Pune
12	Volley Ball (W)	Lokmangal College of Agriculture, Wadala	10 th & 11 th September 2015	AC, Wadala	MIT, Pune
13	Kho Kho (M)	Dr. ASCAE, MPKV, Rahuri	03 rd September & 01 st October 2015	ASCAE, MPKV, Rahuri	AC, Paniv
14	Kho Kho (W)	Dr. ASCAE, MPKV, Rahuri	03 rd September & 01 st October 2015	AC, Baramati	AC, Dhule
15	Basketball (M)	KKW Agril College, Nashik	12 th & 13 th Sept. 2015	AC, Talsande	AC, Baramati
16	Basketball (W)	KKW Agril College, Nashik	12 th & 13 th Sept. 2015	AC, Pune	VSBT, Baramti
17	Wrestling	Ratnai College of Agriculture, Akulj	18 th & 19 th Dec. 2015	AC, Rethre B.K.	AC, Sonai
18	Weight Lifting & Best Physique	Ratnai College of Agriculture Akulj	18 th & 19 th Dec. 2015	AC Kolhapur	RAC Akulj & AC Wadala

- The P.C. Alexander Inter University Elocution Competition in Marathi was organized by Savitribai Phule Pune University, Pune on 23rd December 2015. Shri Premraj Chavan stood first & obtained Gold medal.
- The Anti Dowry Movement Inter University Elocution Competition was held at Mumbai on 12th January, 2016. Shri Akshay Ugale stood first in this Inter University Elocution Competition & obtained Gold Medal.
- The Maharashtra State Inter University Research Festival AVISHKAR – 2015-16 was organized at Savitribai Phule Pune University, Pune from 10th to 12th January, 2016. The 27 Projects of MPKV, Rahuri students were sent for participation in AVISHKAR-2015-16.



The following students obtained prizes in AVISHKAR Research Festival.

Sr. No.	Name of Student	Category	Prize
1	Shri Krishna Bhokare	Agricultural & Animal Husbandary	First
2	Shri Yogesh Deshmukh	Medicine & Pharmacy	Second
3	Miss Mutum Lamnganbi	Commerce Management Law	Second

- Mahatma Phule Krishi Vidypeeth, Rahuri and National Service Scheme jointly organized the Maharashtra State Inter University Social and Cultural Competition “UTKARSH” on 5th to 7th Feb., 2016.
- The XIV All India Inter Agril-Universities Sports & Games Meet 2015-16 was held at Tamil Nadu Agricultural University, Combatore from 22nd to 26th Feb 2016.

The following teams of MPKV, Rahuri secured the prizes in following events.

Sr. No.	Name of Student /Team	Event	Rank
1	Kho Kho (Women)	---	Winner
2	Kabaddi (Men)	--	Winner
3	Kabaddi (Women)	--	Runner
4	Badminton (Women)	--	3 rd Place
5	Navathar Manisha Babasaheb	Long Jump	2 nd Place

1.2 Research

1. The university has released 9 new varieties i.e. Maize hybrid (Phule Maharshi), Maize Sweet corn hybrid (Phule Madhu), Hybrid Napier (Phule Gunwant), Chickpea (Phule Vikram), Cotton (Phule Shwetambari), Soybean (Phule Sangam), Sugarcane (Co VSI-03102), Okra (Phule Vimukta) and Clusterbean (Phule Guar).
2. The university has released 3 Agri. Farm Implements i.e. Phule check basin former, Phule Nut Sheller and Phule drumstick harvester.
3. The university has passed 69 recommendations on various aspects for the benefit of the farming community.
4. The university has produced 6191 quintals of breeder seed and 14945 (HOPE) quintals of certified and truthful seed.
5. A total of 21136 quintals of seed of various field crops were produced during 2015-16.
6. A total of 753292 planting material of fruit crops, 22983 ornamental plants and 211.94 quintals seed of vegetable crops were produced by university.
7. A total of 5445 litre and 47.294 MT of biopesticides and biofertilizers were produced by various centers of the university.

1.3 Extension Education

1. About 222 off campus training programmes for farmers, farm youth, farm women, staff of development departments and inter action 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 67 monthly district workshops were arranged and 1842 number of beneficiaries were benefitted from it.
3. A total of 56 method demonstrations, 207 Result



demonstrations and 691 Front line demonstrations were conducted and 3601 peoples benefitted from these demonstrations.

4. During the year different 1767 Extension Education methods and Aids viz. group discussions, meeting, field visit / shivar pheries, Field days, Farm & Home visit, Farmers rallies, Agril. Exhibition, study tour were organized for diffusion of Agricultural Technologies to the end users.
5. Diagnostic and surveillance team has visited at 434 places to guide the farming community.
6. Different publications viz. Krishi darshani (15000), Shri Sugi (9000), Folders (20000), booklets, MPKV News letter were released by the university and made available to the end users.
7. Nearly 67243 VIP's students, farmers, Trainees and officers visited central campus, MPKV, Rahuri and 6910 visited other centers to acquire recent knowledge of Agriculture and allied enterprises.
8. The university scientist attended 6256 Help line calls and guided the farmers on major issues.
9. Through mobile crop Dispensary 1130 Soil Samples, 433 water samples, 65 pests samples, 70 diseases samples were tested and 608 soil health cards were issued by the University scientist along with necessary guidance was given on the spot.



2. Education

There are two faculties to impart Agricultural Education in this university namely

1. Faculty of Agriculture
2. Faculty of Agricultural Engineering

Faculty of Agriculture

Agriculture Faculty is a vast and diversified field offering numerous career options. The Faculty of Agriculture imparts education in various fields viz., Horticulture, Agricultural BioTechnology, Food Technology, Post Harvest Technology, Soil Science, Plant Protection, Agro Forestry, Agricultural Business Management, Micro Irrigation Systems, Social Sciences etc. The faculty of Agriculture is responsible for undergraduate, post-graduate and doctoral degree academic programmes. The main streams of faculty of Agriculture are as follows :

B.Sc. (Agri.)

Agricultural education is imparted to develop skilled human resource for developing sustainable Agriculture farming system leading to technological and economic empowerment of practitioners of Agriculture. B.Sc (Agri.) is a four year degree course spread over 8 semesters with 160 credit work load. A total of 123 course credits of B.Sc. (Agri.) degree are completed upto first six semesters. In the seventh semester, Rural Agricultural Work Experience (RAWE) programme is implemented, which exposes students to rural life and farming situations and the constraints in adoption of modern Technology by the farmers. In the eighth semester in Experiential Learning programme, the students undergo intership in any one of the following industries /companies / institutes.i.e- seed / fertilizer /pesticides industries, bio technological /bio pesticide industries, commercial nurseries, sericulture

units, food processing units, Agriculture finance institutions /banks /credit societies etc. Maharashtra Agricultural University Examination Board, Pune conducts common semester end theory examinations of the undergraduate programme. Under this university, 7 constituent colleges and 27 affiliated Agricultural colleges offer B.Sc. (Agri.) degree programme.

B.Sc. (Hort.)

Horticultural education until 1970 was taught as a part of Agriculture curriculum in India. Realizing the importance of horticulture in promoting livelihood security, economic empowerment and nutritional security, horticulture emerged as a separate discipline. Under the jurisdiction of the university, first Horticulture College was started at the College of Agriculture, Pune in the year 1984. B.Sc (Hort.) is a four year degree course spread over 8 semesters. The total credit requirement for the B.Sc. (Hort.) Degree Course is 165. In VII & VIII semesters, 14 weeks HANDS ON TRAINING and 6 weeks Industrial Training are conducted on nursery management and protected cultivation, respectively. This program is implemented by one constituent college and five affiliated horticultural colleges of the university.

B. Tech. (Food Science and Technology)

B.Tech. (Food Science and Technology) is a 4 year degree course spread over 8 semesters. Out of the total 180 credits, 125 course credits are completed upto sixth semester. In seventh semester 25 (15+10) credits are recommended for Hands on Training on- campus (15 credits) in various departments of college and off - campus training in other colleges of Food Technology (10 credits). At least, in two areas Hands on Training is offered to the students by the college depending upon local needs and industrial demands. In eighth semester, Inplant training (off campus) for six months in food



industries/Institutes for 30 credits is offered to the students and evaluation is done by host industries.

The basic objective is to provide skilled manpower for commercial food processing, R and D department, 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 eight affiliated colleges of the university.

B. Sc. (B.B.M.)

B. Sc. (B.B.M.) degree programme is a 4 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 passouts will reach to the expectation. The course helps students to get acquainted with the knowledge regarding Agriculture, Agri. economics, Agri. marketing and Agri. Business management. Out of the total 160 credits, 120 course credits are completed upto sixth semester. In the seventh semester 20 credits are recommended for Experiential Learning. In all five modules are developed and a batch of five students to a maximum 20 students are allotted for each module. The modules developed are namely agro based industries, management of Agro allied industries, post harvest management, project planning, formulation, evaluation of high valued crops and marketing management of Agri. input industries. In VIII semester students are offered 20 credits in In Plant Training. The students in this programme live in villages along with farmers adopting latest technologies, afterwards work in processing / marketing units and have one week study tour. The programme is implemented at nine affiliated colleges of the university.

B. Sc. (Agri. Bio-Tech.)

B.Sc.(Agri. BioTech.) is a 4 year degree course spread over 8 semesters. Since Bio technology is an integrated science of various disciplines, this UG programme comprises five departments viz. Biochemistry and Molecular Biology, Plant BioTechnology, Post Harvest and Food BioTechnology, Animal BioTechnology and Crop Science.

Out of the 8 semesters, upto 6th semester various courses are offered to the students. In the 7th semester practical oriented cafeteria courses are offered. In the 8th semester hands on training programme comprising individual project is offered in order to acquire the enough knowledge in BioTechnology for their future job / project. There are six affiliated Agril. BioTech. colleges under MPKV, Rahuri for creating human resource in Agril. Bio technology.

1.1 Constituent Colleges

a) 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 with land holding of 90 ha. 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.

b) College of Agriculture, Kolhapur



Kolhapur, the southern most 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 Shivaji University, Kolhapur. Subsequently it became the constituent college of the University in 1969. This college celebrated its Golden Jubilee Year during 2013. It has an annual intake capacity of 190 students with land holding of 85.55 ha. It offers PG degree programme in various subjects. 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 set up to aid students for learning.

c) 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. The College has a beautiful campus with spacious buildings for each department. It has a total land holding of 206.43 ha. 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 projects such as 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.

d) 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.

e) College of Agriculture, Karad



College of Agriculture, Karad was established in the Birth Centenary year of Hon'ble Ex-Chief Minister of Maharashtra Late Yashwantrao B. Chavan. The dream of Late Yashwantrao B. Chavan was to establish a college which will give education to the rural masses for development of Agriculture, Social and Economic conditions of the rural people of the western region of Maharashtra. The dream came to reality through the Hon. Ex-Chief Minister of Maharashtra Shri. Prithvirajji Chavan on 16/07/2013 and actual working was started on 16/08/2013 with inclusion of 60 students. Subsequently in the year 2014-15 60 (sixty) students have taken admission to this college as second batch of this college. The intake capacity of this college is 60 students.

f) College of Agriculture, Nandurbar



The Nandurbar district was established on 1.7.1998. It includes 6 tahsils in the district. Nandurbar, the

northern most district town of Maharashtra State is located in the tribal areas. In Nandurbar district 28.30 per cent area is under irrigation. The College of Agriculture, Nandurbar was started from the year 2013-14 with the intake capacity of 60 and 80 per cent reservation for tribal students.

g) College of Agriculture, Muktainagar

The college was established in 2015. It has an annual intake capacity of 60 students per year. It offers under graduate B.Sc. (Agri.) degree programme.

Affiliated Colleges

Mahatma Phule Krishi Vidyapeeth, Rahuri realized the need and demand for more trained human resource in Agriculture and accordingly provided affiliation to 64 colleges in the faculty of Agriculture. These colleges offer various undergraduate degree programs in the faculty of Agriculture. There are 27 Agriculture Colleges, 05 Colleges of Horticulture, 08 Colleges of Food Science, 09 Colleges of Agril. Business Management and 06 Colleges of Agril. Bio technology, 08 Agril. Engineering and 01 Animal Husbandry.

Post Graduate Programme

The faculty offers post graduate degree programme leading to M.Sc.(Agri.) degree and doctoral programme leading to Ph.D degree in 20 disciplines. The common entrance test is conducted by Maharashtra Agricultural Universities Examination Board (MAUEB) for Post Graduate Courses of all the faculties.

M.Sc. (Agri.)

The M.Sc. (Agri.) degree course is of two years 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 into Major subject (20 credit), Minor subject (09

credit), Supporting subject (05 credit), Seminar (01 credit), thus making 35 credits. In addition, six non credit compulsory courses are allotted. For dissertation, 20 credits are allocated for research thesis. 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, 60 at college of Agriculture, Pune, 24 at College of Agriculture, Kolhapur and 20 at college of Agriculture, Dhule.

Ph. D. (Agriculture)

The Ph.D. degree course is of three years 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 into Major subject (15 credit), Minor subject (08 credit), Supporting subject (05 credit), Seminar (02 credit), thus making the 30 credits. In addition, six non credit compulsory courses are allotted. Research is the main component of Ph.D. degree programme wherein a student undertakes sufficient research by way of conducting field experiments or collection of data or both to fulfill his research objectives. The Ph.D. Dissertation is independently evaluated by two experts from any of the SAUs in India. 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 is 70 at Post Graduate Institute, MPKV, Rahuri and 02 at College of Agriculture, Pune. In addition, inservice candidates are allotted admission to Ph.D.

Post Graduate Institute

The Post Graduate Institute was established in 1972



to meet the higher educational needs of Agriculture in the State. The institute offers M.Sc. (Agri.) degree in 20 disciplines namely- Agronomy, Genetics & Plant Breeding, Seed Science & Technology, Plant Physiology, Animal Science, Dairy Science, Plant Pathology, Agril. Microbiology, Agricultural Economics, Agricultural Entomology, Extension Education, Fruit Science, Vegetable Science, Biochemistry, Food Science and Technology, Soil Science and Agril. Chemistry, Agricultural BioTechnology and Irrigation Water Management. The Ph. D. programme is offered in twenty disciplines. 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 to 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 centres are available to students 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.

College of Agriculture, Pune

Post graduate programme was started from the year 1984. The intake capacity of M.Sc. (Agri.) and



M.Sc. (Horti.) is 54 and 6 respectively. Ph.D is offered in Agriculture Meteorology.

College of Agriculture, Dhule

Post graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri.) and M.Sc. (Horti.) is 24 and 4, respectively.

College of Agriculture, Kolhapur

Post graduate programme was started from the year 2009-10. The intake capacity of M.Sc. (Agri.) and M.Sc. (Horti.) is 48 and 4, respectively.

Faculty of Agricultural Engineering

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. The faculty has one constituent college and eight affiliated colleges offering education in Agricultural Engineering. All these colleges offer undergraduate degree program leading to B.Tech. (Agri. Engg.) degree, whereas, the constituent college at Rahuri offers the post graduate program in Agricultural Engineering leading to M.Tech. (Agri. Engg.) degree.

Dr. Annasaheb Shinde College of Agricultural Engineering, 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 16 in four different disciplines 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.

Lower Agricultural Education

Under the Lower Agricultural Education, Diploma programmes are offered in Marathi medium through 10 constituent and 81 affiliated Agri. Tech. Schools in the jurisdiction of the university. The concept of lower Agricultural education revolves around improving the competency of participating students and providing trained manpower at the grassroot level. The students who pass the 10th standard (S.S.C.) examination are admitted on district merit list for Agri. Tech. Schools. Besides this 1 constituent and 3 Mali Training Centres conduct one year certificate courses.

Agricultural Knowledge Management Unit (AKMU)

The MPKV, Rahuri has V-SAT connectivity at Central Campus, constituent colleges and research stations. AKMU has a good network of OFC and Wi-Fi connectivity with 200 nodes. The video conferencing facility was created at three places at central campus and at 8 centers (College of Agriculture- Kolhapur, Pune and Dhule, ZARS-Igatpuri and Solapur, ARS, Kasbe Digraj, Dist. Sangli, CSRS, Padegaon, Dist. Satara and Oilseed Research Station, Jalgaon). The project is wholly owned and controlled by MPKV, Rahuri with a server at AKMU. This is a mega project of MPKV under special funds received from ICAR, New Delhi.

University Library



The University Library, MPKV, Rahuri started functioning at Central Campus in the year 1971. Since its inception the library is developing steadily 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 for the last forty 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.

Library Budget

During the year under report, the University Library, Central Campus, Rahuri received the grants of Rs. 41.51 lakh for salary and Rs. 2.14 lakh for contingent expenditure and University fund of Rs. 8.91 lakh in addition to that Rs. 44 lakh from the ICAR, New Delhi. This library has received a total grants of Rs. 96.56 lakh during the year under report.

Acquisition of Books and Journals

During the year under report the library received 580 books, 249 theses thus making total collection of 1,16,936 as on 31.3.2016. The library subscribed 139 online books the the year 2016. The library is also receiving 18 journals against exchanges of JMAU and 40 journals on gratis with subscribed journals.

Library Services

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

IT Based Services

- Internet services
- CD ROM Databases
- CeRA (Consortium of e-Resources in Agriculture)
- E-journals, On-line E-journals
- Statistical Database
- ETAD (E-Theses Abstract Database)
- Viewing Video Cassettes, DVDs through TV/ VCR
- KrishiPrabha
- Course conducted
- Remembrance Day of Dr. S.R.Ranganathan
- One Day Workshop
- OPAC (Online Public Access Catalogue)



Educational Institutes

Sl. No.	Name of Institute	Name of the Degree	Intake capacity
A) Constituent Colleges			
1.	Post Graduate Institute, Rahuri	Ph.D.	72
		M.Sc. (Agri.)	168
		M.Sc. (Hort.)	12
		M.Sc. (Bio-Tech.)	8
2.	College of Agriculture, Pune	M.Sc. (Agri.)	54
		M.Sc. (Hort.)	6
		M.B.M. (Agri.)	30
		B.Sc. (Agri.)	190
3.	College of Agriculture, Kolhapur	M.Sc. (Agri.)	48
		M.Sc. (Hort.)	4
		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.	College of Horticulture, Pune	B.Sc. (Hort.)	32
9.	Dr.Annasaheb Shinde College of Agril.Engg., Rahuri	Ph.D.	6
		M.Tech.(Agril.Engg)	16
		B.Tech. (Agril.Engg)	64
B) Affiliated Colleges			
1.	College of Agriculture, Akluj, Tal. Malshiras	B.Sc. (Agri.)	120
2.	College of Agriculture, Baramati	B.Sc. (Agri.)	120
3.	College of Agriculture, Sonsal Hingangaon, Tal. Kadegaon	B.Sc. (Agri.)	120
4.	Maratha Vidya Prasarak, College of Agriculture, Nasik	B.Sc. (Agri.)	120
5.	College of Agriculture, Rethare	B.Sc. (Agri.)	120
6.	College of Agriculture, Sonai	B.Sc. (Agri.)	120
7.	K.K.Wagh College of Agriculture, Nasik	B.Sc. (Agri.)	120
8.	College of Agriculture, Rajmachi	B.Sc. (Agri.)	120
9.	Dr.Ulhas Patil College of Agriculture, Jalgaon	B.Sc. (Agri.)	120
10.	College of Agriculture, Ambi, Talegaon Dabhade	B.Sc. (Agri.)	120
11.	College of Agriculture, Shahada, Dist. Nandurbar	B.Sc. (Agri.)	120
12.	College of Agriculture, Wadala	B.Sc. (Agri.)	120
13.	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.	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. Sindkheda	B.Sc. (Agri.)	120
19.	College of Agriculture, Babhulgaon, Tal. Yeola	B.Sc. (Agri.)	60
20.	College of Agriculture, Pravaranagar, Loni	B.Sc. (Agri.)	60
21.	College of Agriculture, Ghargaon	B.Sc. (Agri.)	60
22.	Sharad College of Agriculture, Jainapur	B.Sc. (Agri.)	60
23.	College of Agriculture, Paniv	B.Sc. (Agri.)	60
24.	College of Agriculture, Vilad Ghat, Ahmednagar	B.Sc. (Agri.)	60
25.	College of Agriculture, Nesari, Kolhapur	B.Sc. (Agri.)	60
26.	College of Agriculture, Malegaon, Nashik	B.Sc. (Agri.)	60
27.	College of Agriculture, Bhanashiwre, Newasa, Ahmednagar	B.Sc. (Agri.)	60
28.	College of Horticulture, Phaltan	B.Sc. (Hort.)	80
29.	College of Horticulture, Sonsal-Hingangaon Tal. Kadegaon	B.Sc. (Hort.)	40
30.	K.K.Wagh College of Horticulture, Saraswatinagar, Nashik	B.Sc. (Hort.)	40
31.	College of Horticulture, Malegaon, Nashik	B.Sc. (Hort.)	40
32.	College of Horticulture, Paniv, Solapur	B.Sc. (Hort.)	40



33.	College of Agri. Engineering, Jalgaon	B.Tech. (Agril. Engg.)	80
34.	College of Agri. Engineering, Talsande	B.Tech. (Agril. Engg.)	80
35.	K. K. Wagh College of Agril. Engineering, Nasik	B.Tech. (Agril. Engg.)	80
36.	College of Agril. Engineering, Yashwantnagar, Tal. Karad	B.Tech. (Agril. Engg.)	40
37.	College of Agril. Engineering, Mirajgaon	B.Tech. (Agril. Engg.)	40
38.	College of Agril. Engineering, Paniv	B.Tech. (Agril. Engg.)	40
39.	College of Agril. Engineering, At. Maldad	B.Tech. (Agril. Engg.)	40
40.	College of Agril. Engineering, Rajmachi	B.Tech. (Agril. Engg.)	40
41.	MEER's MIT College of Food Technology, Loni Kalbhor	B.Tech. (Food Tech.)	80
42.	Mokashi College of Food Technology, Rajmachi	B.Tech. (Food Tech.)	80
43.	K.K.Wagh College of Food Technology, Nashik	B.Tech. (Food Tech.)	80
44.	College of Food Technology, Maldad	B.Tech. (Food Tech.)	80
45.	College of Food Technology, Jalgaon	B.Tech. (Food Tech.)	40
46.	College of Food Technology, Diwanmala	B.Tech. (Food Tech.)	40
47.	College of Food Technology, Wagholi	B.Tech. (Food Tech.)	40
48.	College of Food Technology, Ghargaon	B.Tech. (Food Tech.)	40
49.	College of Agri. Bio-Technology, Loni, Tal. Rahata	B.Sc. (Agri. Bio-Tech.)	80
50.	K. K. Wagh College of Agri. Bio-Technology, Nasik	B.Sc. (Agri. Bio-Tech.)	80
51.	College of Agri. Bio-Technology, Wadala	B.Sc. (Agri. Bio-Tech.)	40
52.	Modern College of Agri. Bio-Technology, Paud, Tal. Mulshi	B.Sc. (Agri. Bio-Tech.)	40
53.	College of Agri. BioTech., Rajlakshmi Foundation, At. Madadgaon	B.Sc. (Agri. Bio-Tech.)	80
54.	College of Agriculture BioTechnology, Baramati	B.Sc. (Agri. Bio-Tech.)	40
55.	College of Agricultural Business Management, Akurdi	B.B.A. (Agri.)	80
56.	College of Agri. Business Management, Narayangaon, Tal. Junnar	B.B.A. (Agri.)	80
57.	College of Agricultural Business Management, Sangli	B.B.A. (Agri.)	40
58.	College of Agri. Business Management, Gunjalwadi, Tal. Sangamner	B.B.A. (Agri.)	40
59.	College of Agricultural Business Management, Loni, Tal. Rahata	B.B.A. (Agri.)	40
60.	College of Agricultural Business Management, Nashik	B.B.A. (Agri.)	40
61.	College of Agricultural Business Management, Wadala	B.B.A. (Agri.)	40
62.	College of Agricultural Business Management, Baramati	B.B.A. (Agri.)	40
63.	College of Agricultural Business Management, Paniv, Solapur	B.B.A. (Agri.)	40
64.	College of Animal Husbandry, Baramati	Animal Husbandry	30

C) Agril.Tech.Schools & Mali Training, Centers

1.	Ghatak Krishi Tantra Vidyalaya Manjarifarm (Pune), Kolhapur, Dhule, Borgaon (Satara), Solapur, Digras (Sangali), Puntamba (Ahmednagar), Jalgaon, Malegaon (Nashik)	Agril. Diploma	60 (each)
2.	Agricultural Technology School, Manjari farm (Girl)	Agril. Diploma	60
3.	Private Agricultural Technology School/ Polytechnics (Total - 81)	Agril. Poly. Diploma	60 (each)
4.	Mali Training Center, Ganeshkhind, Pune	Certificate Course	40
5.	Private Mali Training Center, (Total - 04)	Certificate Course	40 (each)

Successful Students of the Post Graduate, Agri. Diploma & Agri. Polytechnic of MPKV, Rahuri (Academic year 2015-16)

Sr. No.	Item	Passout Students
1.	Ph. D.	72
2.	M. Sc. (Agri.)	258
3.	M. Sc. (Horti.)	28
4.	M. Tech. (Agril. Engg.)	17
5.	MBM	42
6.	M. Sc. (Biotech)	10
	Total	427
7.	Agri. Diploma	918
8.	Agri. Polytechnic	1020
	Total	1938



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 verification of research work is being done to test the technologies developed by the university as well as to takeup the research programmes based on feedback received from the farmers.

At present, there are 76 non-plan schemes funded by State Govt., 47 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 47 years, the university has released quite good number of high yielding varieties (more than 246) 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 micro propagation, 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 implements for release along with 69 recommendations, various aspects and registration of 2 biotic stress tolerant plant sources for benefit of the farmers.

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, Coffee, 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 Buffalo, Horticultural 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	Organic Farming System	Rabi Jowar, Pulses
4. Pandharpur	Pulses, Oilseeds	Arid Zone Fruit Crops
5. Chas	--	Dry farming, Bajra, Pulses (K), Sorghum (R)
6. Padegaon (State Level)	Sugarcane, Sugarcane based Farming & Cropping System	Sugar beet
7. Rahuri	Sorghum, Pulses, Irrigated Cotton, Forages, Cropping System, Water Management, Organic Farming, IPM, BioTechnology, PHT, Farm Machinery, STCR, Cattle, Goat, Sheep, Seed Technology, Jute and Under utilized crops	Grasses, Groundnut (S), Fruits, Vegetables, Pearl millet, Pulses, Soybean, Cotton and Wheat
8. Kopergaon	Sunflower	--
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, Betelvine, Rainfed Cotton	Pulses, Sorghum (K), Soybean, Sunflower



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

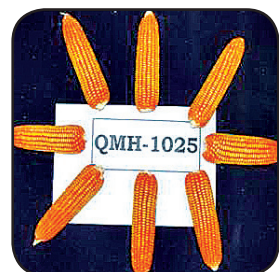
The areas have been identified for better adaptation of cropping patterns such as sugarcane in Kolhapur, Sangli, Pune and Ahmednagar, grapes in Nashik, Sangli, Pune and Solapur, fruits in Pune, Ahmednagar, Sangli and Solapur district to harvest maximum yield and profit.

Significant Research Achievements

I Released Varieties /Hybrids

Field Crops

1. Maize hybrid : *Phule Maharshi*



Maize hybrid *Phule Maharshi* (QMH-1025) is recommended and released for Maharashtra for kharif season.

Salient features

- High yield with orange yellow, semi-flint grain
- Yield: Green cob yield with husk : 76.05 q/ha.
- Midlate maturity: 95-110 days
- Resistant to Maydis Leaf blight & Fusarium Stock Rot
- Moderately resistant to Turicum Leaf Blight, Bacterial Sheath & Leaf Blight & Charcoal rot.
- Resistant to stem borer (*Chilo partellus*) in field.

2. Maize Sweet Corn hybrid : *Phule Madhu*



Maize Sweet Corn hybrid *Phule Madhu* (QMHSC-1182) is recommended and released for Maharashtra for kharif season.

Sailent Features

- High yield with cream yellow, flint grain at green cob stage.
- Sweet corn single cross hybrid.
- Yield : Green cob yield with husk : 128.64q/ha.
- Sweetness (Brix) : 14.89%.
- Moderately resistant to Turicum Leaf Blight, Maydis Leaf Blight & Fusarium Stock Rot.
- Resistant to stem borer (*Chilo partellus*) under field condition.

3. Hybrid Napier: *Phule Gunwant*



Phule Gunwant (RBN-2011-12) perennial Bajra X Napier hybrid is recommended and released under irrigated condition of Maharashtra.

Sailent Features

- Green forage yield : 1153.69 q/ha/year.
- Dry Matter yield : 252.80 q/ha/year.
- Resistant to leaf blight disease & no incidence of insect pest.
- Better fodder nutritional qualities- (Low Oxalic acid content 2.05 %) and High tillering ability.

4. Chickpea : *Phule Vikram*



Chickpea variety *Phule Vikram* (G-08108) is recommended and released for Maharashtra for mechanical harvesting.

Salient features

- Tall growth habit, hence suitable for mechanical harvesting.
- **Average yield.**

Under optimum sown irrigated condition : 2225 kg/ha. (Percent increase over Vijay - 16.92 %, Vishal- 19.50 % , Digvijay - 11.36 %)

Under late sown irrigated condition : 2112 kg/ha (Per cent increase over - Vijay- 19.86 % , Digvijay- 17.73 % , Vishal - 31.10 %)

Under rainfed condition - 1637 kg/ha (Percent increase over Vijay -4.94 % , Vishal - 7.49 % , Digvijay -3.41 %)

- Potential yield: 4593 kg/ha.
- Yellowish brown, medium size seeds (20.5 g/100 seeds).
- Resistant to Fusarium wilt (1.98 % incidences).
- Period of mechanical harvesting - 105 to 110 days.

5. Cotton : *Phule Shwetambari*



Hirsutum Cotton hybrid *Phule Shwetambari* (RHH-0622) is recommended and release in irrigated condition of Maharashtra

Salient features

- Highest seed cotton yield :2125 kg/ha
- Mean Ginning out turn : 33.7 %
- Highest strength/length (S/L) ratio :0.83
- Moderately resistant to dahiya, Bacterial Blight and Alternaria Blight.
- Tolerant to sucking pests and bollworms.
- Recommended for irrigated tract of Maharashtra state.

6. Soybean : *Phule Sangam*



Soybean variety *Phule Sangam* (KDS 726) is recommended and release in southern Maharashtra for Kharif season.

Salient features

- Seed yield - 2097 kg/ha
- Suitable for Southern Zone (Southern Maharashtra, Telangana, Karnataka, Tamil Nadu)
- Duration : 95-97days
- Oil per cent : 18.42 %
- Resistant to Rust
- Moderately Resistant YMV, Charcoal rot, Collar rot
- Moderately Resistant to Stem fly

7 Sugarcane : *CoVSI- 03102*



The midlate sugarcane variety Co VSI 03102 is recommended for cultivation in a Preseason and Suru seasons for sugarcane growing areas of high rainfall zone of Maharashtra.

Salient features

- Cane yield : 129.24 t/ha (Percent increase over Co 92005 : 35.96 % , Co 86032 : 17.29 %)
- Sugar yield : 19.53 t/ha (Percent increase over Co 92005 : 34.60 % Co 86032 : 24.00 %)
- Higher sucrose in juice
- Recommended for Pre-seasonal and Suru planting seasons.
- Easy detrashing.
- Less susceptible to internode borer and resistant to smut disease.
- Moderately resistant to rust and brown spot diseases.

Horticulture Crops**1. Okra : *Phule Vimukta***

Yellow vein mosaic virus disease resistant okra variety *Phule Vimukta* is recommended and release for cultivation in Maharashtra.

Salient features

- Yield - 206.10 q/ha (percent increase over Phule Utkarsha - 11.68%, Arka Anamika - 21.93, Mahyco Hy. No 10 - 17.24%).
- Attractive green colour fruits with shinning.
- Resistant to yellow vein mosaic virus disease.
- Tolerant to white fly, jassids and fruit borer.
- High content of calcium and phosphorus.

2. Clusterbean : *Phule Guar*

Clusterbean variety “*Phule Guar* (RHRCB Selection – 10) having higher pod yield, light green pod colour, better taste and moderately resistant to powdery

mildew disease is recommended and released for cultivation in Western Maharashtra.

Salient Features

- Attractive light green colour.
- Yield : kharif : 104 41 q/ha (29.15 % higher than check variety NCB-40), rabi – 153.61 q/ha (19.30 % higher than check variety NCB-40).
- Moderately resistant to powdery mildew.

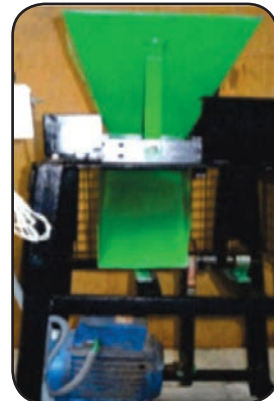
II Farm Implements**1. Phule check basin former**

For rain water conservation in rabi sorghum MPKV developed and released Phule check basin former, it is used

for formation of check basins of size 6 m in length and 2 m in width.

2. Phule Nut Sheller

The “Phule power operated 1 H.P. single phase nut sheller” developed by Mahatma Phule Krishi Vidyapeeth is recommended for shelling of medicinal nuts like *Hirda* and *Ritha*.

**3. Phule Drumstick Harvester**

Manually operated “Phule Drumstick Harvester” developed by Mahatma Phule Krishi Vidyapeeth is recommended for

harvesting of drumstick.

III Registration of Biotic resistant sources

- 1 The rice entry NLR 20104 is identified as multiple disease resistant genotypes as it showed consistently resistant reaction to leaf blast, neck blast and brown spot diseases
- 2 The rice entry TeTep is identified as multiple disease resistant genotypes as it showed consistently resistant reaction to leaf blast, neck blast, leaf scald, and brown spot diseases.

IV Research Recommendations

I Natural Resource Management

Agrometrology

- 1 The following regression equation showing interrelationship between aphid incidence on cotton and weather parameters is recommended.

Equation

$$\text{Aphid Incidence} = 107.734 - 3.085 \times T_{\max} + 0.713 \times T_{\min} - 0.551 \times \text{WS} - 0.081 \times \text{RF}$$

Where,

Aphid-Aphid population (in equation), T_{\max} - Maximum temperature ($^{\circ}\text{C}$), T_{\min} - Minimum temperature ($^{\circ}\text{C}$), WS -Wind speed (km/ hr), RF -Rainfall (mm).

The resulting negative value in equation will indicate absence of aphid incidence and positive value indicates possibility of occurrence of incidence.

- 2 The following regression equation showing interrelationship between jassid incidence on cotton and weather parameters is recommended.

Equation

$$\text{Jassid Incidence} = 154.48 - 1.87 \times T_{\max} + 1.21 \times T_{\min} - 1.30 \times \text{RH-I}$$

Where,

Jassid - Jassid population (in equation), T_{\max} -Maximum temperature ($^{\circ}\text{C}$), T_{\min} -Minimum temperature ($^{\circ}\text{C}$), RH-I -

Morning relative humidity (%).

The resulting negative value in equation will indicate absence of jassid incidence and positive value indicates possibility of occurrence of incidence.

- 3 The following regression equation showing interrelationship between thrip incidence on cotton and weather parameters is recommended.

Equation

$$\text{Thrip Incidence} = 198.55 - 3.23 \times T_{\max} + 1.44 \times T_{\min} - 1.33 \times \text{RH-I} + 0.47 \times \text{WS}$$

Where,

Thrip - Thrip population (in equation), T_{\max} -Maximum temperature ($^{\circ}\text{C}$), T_{\min} -Minimum temperature ($^{\circ}\text{C}$), RH-I -Relative humidity morning (%), WS -Wind speed (km /hr)

The resulting negative value in equation will indicate absence of thrip incidence and positive value indicates possibility of occurrence of incidence.

4. The following regression equation showing interrelationship between whiteflies incidence on cotton and weather parameters is recommended.

Equation

$$\text{White flies Incidence} = 41.97 - 0.68 \times T_{\max} - 0.18 \times \text{RH-I} - 0.18 \times \text{BSS}$$

Where,

White flies -White flies population (in equation), T_{\max} -Maximum temperature ($^{\circ}\text{C}$), RH-I - Relative humidity morning (%), BSS - Bright sunshine hours (hours/day).

The resulting negative value in equation will indicate absence of white flies incidence and positive value indicates possibility of occurrence of incidence.

5. The following regression equation showing inter relationship between Alternaria blight disease incidence on cotton and weather parameters is recommended.



$$PDI = -59.67 - 2.58 \times T_{\min} + 1.31 \times RH-I + 0.15 \times RF$$

Where,

PDI - Percent Disease Index, T_{\min} - Minimum Temperature (14.4-22.8°C), RH-I - Morning Relative Humidity (86-93%) and RF - Rainfall (0.3-59.9 mm)

The resulting negative value in equation will indicate absence of Alternaria blight incidence and positive value indicates possibility of occurrence of incidence.

- The following regression equation showing interrelationship between sunflower thrips incidence on sunflower and weather parameters is recommended.

Equation

$$\text{Thrip incidence} = 327.74 - 3.95 \times T_{\max} - 1.97 \times RH-I - 0.42 \times RH-II + 0.11 \times RF$$

Where,

Thrip - Thrip population (in equation), T_{\max} - Maximum temperature (°C), RH-I-Relative Humidity Morning, (%), RH-II-Relative Humidity Evening, (%), RF-Rainfall (mm).

The resulting negative value in equation will indicate absence of whiteflies incidence and positive value indicates possibility of occurrence of incidence.

- The following regression equation showing interrelationship between shoot and fruit borer incidence on brinjal and weather parameters is recommended.

Equation

$$\text{BSFB incidence} = -279.06 + 7.78 \times T_{\max} - 1.67 \times T_{\min} + 0.94 \times RH-I + 0.48 \times RH-II - 0.10 \times RF - 1.57 \times BSS$$

Where,

BSFB -Shoot and fruit borer population (in equation), T_{\max} - Max. Temp. (°C), T_{\min} - Min. Temp. (°C), RH-I-Relative Humidity% (morning), RH-II - Relative

Humidity% (evening), RF - Rainfall (mm) BSS - Bright sunshine hours (hours /day).

The resulting negative value in equation will indicate absence of shoot and fruit borer incidence and positive value indicates possibility of occurrence of incidence.

- The following regression equation showing interrelationship between shoot fly incidence on sorghum and weather parameters is recommended.

Equation

$$\text{SSF incidence} = 118.62 + 1.34 \times T_{\max} + 2.10 \times T_{\min} - 1.77 \times RH-I - 0.04 \times RH-II + 0.37 \times RF$$

Where,

SSF - Sorghum shoot fly population (in equation), T_{\max} - Max. Temp. (°C), T_{\min} - Min. Temp. (°C), RH-I - Relative Humidity % (morning), RH-II - Relative Humidity % (evening), RF - Rainfall (mm)

The resulting negative value in equation will indicate absence of shoot fly incidence and positive value indicates possibility of occurrence of incidence.

- Planting of pre seasonal sugarcane (CoM 0265) during 15 October to 30 November is recommended for higher CCS yield without reduction in cane yield in medium to deep black soils of Western Maharashtra.

Soil Science

- The application of 20 t/ha FYM + nitrogen, phosphorus and potassium as per yield target equation for 55 to 65 t/ha yield of hybrid tomato, balance nutrition and maintaining the soil fertility is recommended for medium deep black soils of Western Maharashtra.

Fertilizer Prescription Equations

$$FN = 4.13 T - 0.43 SN - 1.13 FYM$$

$$FP_2O_5 = 2.5 T - 2.78 SP - 0.57 FYM$$

$$FK_2O = 3.44 T - 0.22 SK - 0.75 FYM$$



Where FN, FP_2O_5 and FK_2O are fertilizer N, P_2O_5 and K_2O in kg/ha, T is yield target in t/ha and SN, SP and SK are soil available N, P and K in kg/ha, FYM in t/ha.

11. The application of 300 kg N, 200 kg P_2O_5 and 300 kg K_2O with 20 t FYM/ha to tuberose (cv. *Phule Rajani*) is recommended in medium deep black soils of Plain zone of Western Maharashtra for higher quality flowers, bulb yield and returns.
12. The application of elemental sulphur @ 20 kg/ha mixed with FYM one month before sowing of soybean along with recommended dose of fertilizer to sulphur deficient soils of Sub montane Zone of Maharashtra is recommended for higher yield and returns of soybean-wheat cropping sequence.

Recommended fertilizers

Basal dose of soybean; FYM @ 5 t/ha + 50:75 N: P_2O_5 kg/ha

Seed treatment of soybean with *Rhizobium japonicum* and PSB (each 25 g/kg)

Basal dose of wheat; FYM @ 5 t/ha + 120:60:40 N: P_2O_5 : K_2O kg/ha

Seed treatment of wheat with *Azotobacter chroococcum* and PSB (each 25 g/kg)

13. The application of Urea-DAP and MOP briquettes, (56:30:30 N: P_2O_5 : K_2O kg/ha ; 220 kg briquettes / ha) after transplanting is recommended for higher yield and returns of lowland paddy in Western Ghat Zone of Maharashtra.
14. The application of 60 g P_2O_5 @ 3.75 g/plant/week from 1-16 weeks after planting through mono-ammonium phosphate (12:61:00) with recommended dose of N and K_2O (150 g N + 150 g K_2O /plant) through fertigation is recommended for higher production and quality banana in medium deep black soils.

Fertigation schedule for banana (cv. Grand Naine)

Period of application (weeks)	No. of weeks	Nutrients (Fertilizers) / g/plant/week		
		N (Urea)	P_2O_5 (DAP)	K_2O (MOP)
1 to 16	16	2.1 (4.55)	3.75 (6.20)	2.0 (3.15)
17 to 28	12	6.2 (13.5)	--	5.0 (8.35)
29 to 40	12	2.5 (5.45)	--	4.0 (6.70)
41 to 44	4	--	--	3.0 (5.0)

15. Foliar application of Multimacronutrient (N-8%, P-8%, K-8%) and Multimicronutrient (Grade II: Fe-2.5%, Mn-1%, Zn-3%, Cu-1%, Mo-0.1%, B-0.5%) liquid fertilizers @ 5 L each in 500 L of water at 60 days and second spray @ 7.5 L each in 750 L of water at 90 days after planting or ratooning with general recommended dose of nutrient is recommended for higher sugarcane yield and returns.
16. The application of recommended dose of compost @ 25 t/ha coupled with bagasse ash @ 1.5 t/ha and consortium of Silicate Solubilizing Bacterial (SSB) liquid bioinoculant @ 2.5 L/ha at the time of sugarcane planting with recommended dose of nutrient is recommended for increasing plant available silicon and higher cane yield.
17. The application of zinc sulphate @ 20 kg/ha incubated for one week with cow dung slurry (1:4 fresh cow dung : water ratio) at 30 days after sowing through irrigation to rabi sorghum with general recommended dose of nutrients (80:40:40 kg/ha N: P_2O_5 : K_2O + 5 t/ha FYM) is recommended in zinc deficient medium deep black soils of Western Maharashtra for increase in nutrient use efficiency, uptake of micronutrients, yield of rabi sorghum, returns and enhancing soil fertility.



Technology

- Half dose of N, full dose of P₂O₅ and K₂O at sowing and half dose of N at 30 DAS.
 - Cow dung slurry 1:4 ratio (125 kg fresh cow dung + 500 L/ha water) incubation for one week and application after 30 DAS with irrigation.
18. The application of general recommended dose of nutrient with soil application of ferrous sulphate and zinc sulphate @ 20 kg/ha each (incubated in FYM for 15 days) at the time of transplanting is recommended for higher yield of cabbage, returns and maintaining iron and zinc status in iron and zinc deficient medium deep black soils of Western Maharashtra.
 19. The application of borax @ 5 kg/ha at the time of transplanting with general recommended dose of nutrients (10 t FYM/ ha, 56 kg N and 30 kg P₂O₅ through Urea-DAP briquettes (170 kg) and 50 kg K₂O/ha) is recommended in boron deficient soils of Western Ghat Zone of Maharashtra for higher yield and returns of lowland paddy.
 20. The application of general recommended dose of wheat (120:60:40 N:P₂O₅:K₂O kg/ha and FYM @ 10 t/ha) with soil application of incubated ferrous sulphate @ 20 kg/ha (incubated in 100 kg FYM for 15 days) is recommended for higher yield, returns and iron availability in iron deficient soils of Plain zone of Western Maharashtra.
 21. The application of foliar spray of EDTA-Zn and EDTA-Fe each @ 0.5 per cent at 2nd and 4th month after planting and soil application of zinc sulphate and ferrous sulphate each @ 15 g /plant by incubating in FYM in two splits at 5th and 7th month after planting with recommended dose of nutrient is recommended for higher yield and quality banana in medium deep black soils.

Agronomy

22. Sowing of Jute (*C. olitorious*) during 11th June to 17th June (24th meteorological week) at 60 cm X 15 cm spacing and topping at 45 DAS is recommended for higher seed production under irrigated condition.
23. In Bt. Cotton - Wheat cropping sequence, planting of cotton at 90 cm x 60 cm spacing with 10 tonne FYM and 5 equal splits of Nitrogen (25 kg/ha each) at planting, 30, 45, 60 and 75 days after planting, basal dose of Phosphate (65 kg/ha) at planting and 3 splits of potash 50 % (33 kg/ha) as basal dose, 25 % each at 30 and 60 days after planting (16 kg/ha) followed by 75 % recommended dose (90:45:30, N: P₂O₅:K₂O kg/ha) to wheat is recommended for consistent cotton equivalent yield in medium deep soils of western Maharashtra.
24. In medium deep soils of western Maharashtra for higher quality green forage yield and returns from hybrid Napier following technology is recommended.
 - Application of 10 t FYM before planting and set treatment of 250 g Azotobacter/1000 rooted slips with 180:60:60 kg N:P₂O₅:K₂O / ha/yr.
 - Application of nitrogen in six equal splits (30 kg/ha) at planting and after every cut and half P₂O₅ and K₂O (30 kg each) at planting and six month after planting at earthing up.
25. In medium deep soil of western maharashtra, durring rabi season, cutting of dual purpose Oat (Phule Harita) on 50th day after sowing at 10 cm above ground level for green forage and retain crop for seed production is recommended for higher returns.
26. Groundnut + Sesamum intercropping system (3:1) under central plateau and assured rainfall zone of



Maharashtra is recommended for higher yield and returns.

IWM

27. Planting of *rabi* onion under drip irrigation on flat beds and irrigation at alternate day on 100 % Etc and application of RDF (100 : 50: 50 kg N, P_2O_5 : K_2O / ha) alongwith 10 t/ha FYM is recommended in medium deep soils of Maharashtra for obtaining higher yield (29%), water saving (46%), improve storability and monetary returns.
28. Application of 60% NPK nutrients in the form of urea, phosphoric acid and muriate of potash in 19 splits up to 9 months crop age as per the following schedule is recommended in suru sugarcane for higher yield and returns under drip irrigation in medium deep soils.
29. Application of 25 t / ha FYM alongwith 75 % of RDF (90:57:57 N: P_2O_5 : K_2O kg/ha, respectively) in the form of water soluble fertilizers using following fertigation schedule through drip

Weeks after planting	Nitrogen		Phosphorus		Potassium	
	%	kg/ha	%	kg/ha	%	kg/ha
Planting	1	1.5	1	0.7	1	0.7
2	2	3.0	2	1.4	2	1.4
4	2	6.0	2	1.4	2	1.4
6	4	9.0	4	2.8	2	1.4
8	6	9.0	6	4.2	3	2.1
10	6	12.0	6	4.2	4	2.8
12	8	12.0	8	5.6	5	3.5
14	8	12.0	8	5.6	6	4.2
16	8	12.0	8	5.6	7	4.9
18	9	13.5	9	6.3	5	3.5
20	9	13.5	9	6.3	5	3.5
22	10	15.0	10	7.0	8	5.6
24	9	13.5	9	6.3	9	6.3
26	6	9.0	6	4.2	8	5.6
28	4	6.0	4	2.8	7	4.9
30	3	4.5	3	2.1	7	4.9
32	2	3.0	2	1.4	7	4.9
34	2	3.0	2	1.4	6	4.2
36	1	1.5	1	0.7	6	4.2
Total	100	150	100	70	100	70

irrigation is recommended for maximum ginger yield and for maintaining soil fertility in medium deep black soils of Western Maharashtra.

Fertigation schedule for ginger

Sr. No	Crop growth stage	Duration after planting of Ginger	Nutrients applied (kg ha ⁻¹)			Nutrients applied (kg per week)		
			N	P_2O_5	K_2O	N	P_2O_5	K_2O
1	Planting to establishment	3 rd to 4 th week (2 equal splits)	9.00	11.25	5.63	4.50	5.63	2.82
2	Active vegetative	5 th to 14 th week (10 equal splits)	45.00	16.89	11.25	4.50	1.69	1.13
3	Rhizome initiation	15 th to 26 th week (12 equal splits)	22.50	16.88	16.88	1.88	1.41	1.41
4	Rhizome maturation	27 th to 32 nd week (6 equal splits)	13.50	11.25	22.50	2.25	1.88	3.75
	Total	30 weeks	90	57	57			

30. Water application of 100% ETc at 3-4 days interval with recommended dose (120:80:120 kg N, P_2O_5 and K_2O / ha) in form of water soluble fertilizer through micro sprinkler with 80% overlapping is recommended for optimum tuber yield and returns from potato cultivation. The spacing between the nozzles of micro sprinkler should be decided as

per following equation

$$\text{Spacing between nozzles} = \frac{\text{Radius of throw of micro sprinkler}}{0.80}$$

31. Drip irrigation with 100 % ETc water at alternate day with fertigation of recommended dose (120 : 60: 60 kg N, P_2O_5 and K_2O /ha) in the form of



water soluble fertilizers in 12 weekly splits as per following schedule is recommended for higher productivity, net returns, efficient water and nutrient use for direct seeded paddy on BBF in medium deep soils of Western Maharashtra.

Irrigation quantity applied to paddy using drip

Sr. No.	Month	Water requirement (lit/day/emitters)
1	June	1.7
2	July	2.5
3	August	2.9
4	Sept	2.5
5	October	2.7

Fertilizer Schedule: Per cent nutrients to be applied in 12 weekly splits

Days after sowing	Nitrogen (N)		Phosphorus (P)		Potassium (K)	
	%	kg/ha	%	kg/ha	%	kg/ha
01-21 (3 weeks)	40	48	40	24	35	21
22-42 (3 weeks)	30	36	30	18	25	15
43-63 (3 weeks)	15	18	20	12	25	15
64-91 (3 weeks)	15	18	10	06	15	09
Total	100	120	100	60	100	60

32. Sowing of kharif maize followed by rabi potato and summer groundnut in sequence at 60x20 cm, 45x20 cm and 22.5x15 cm, respectively on BBF (90 cm top and 120 cm base) with single lateral per bed and 100 % ETc water at alternate day and recommended dose of water soluble fertilizers through drip for higher yield, returns and efficient water and nutrient use is recommended on medium deep soils of Western Maharashtra.
33. Sowing of kharif Bt. cotton followed by rabi wheat in sequence at 75-150 x 75 cm paired row and 15 x 15 cm (6 lines / bed) on BBF (90 cm top and 120 cm base), respectively with single lateral per bed and 100% ETc water at an alternate day and recommended dose of water soluble fertilizers through drip for higher yield, returns and efficient water and nutrient use is recommended on medium deep soils of western Maharashtra.
34. Planting of summer marigold and rabi sorghum (Var. Suchitra) in medium deep black soils of scarcity zone of Western Maharashtra for higher

yield, water saving, net extra income and water use efficiency, marigold and rabi sorghum may be planted in sequence under drip irrigation at paired row planting of 30 – 60 x 15 cm with sub lateral spacing 90 cm and irrigated at 40 % evaporation to marigold and at 70 % Etc to rabi sorghum at every alternate day is recommended.

II Horticulture

35. The planting of tissue culture banana cv. Grand naine in the first week of February is recommended for the higher yield of quality fruits and higher monetary returns in addition to June and October plantings for Khandesh region (Jalgaon, Nandurbar and Dhule) under changing climatic conditions.
36. The ber cv. Narendra Ber-1 is recommended for cultivation in arid region of Maharashtra for higher fruit yield, better sugar acid blend and keeping quality.
37. The light pruning (20cm) of terminal twigs coupled with thinning of internal branches to facilitate open



center system after leaf shedding before onset of bahar is recommended for better yield and quality of pomegranate fruits.

38. Foliar application of 50 ppm NAA at 6, 8 and 10 weeks after transplanting of rainfed chilli in sub motane zone of Maharashtra in medium deep soil is recommended for higher yield and returns.
39. It is recommended to cultivate H 226 cultivar of tapioca for higher tuber yield under tapioca growing regions of plain zone in Maharashtra.

III Basic Science

40. The good quality dehydrated onion flakes with higher yield and rehydration ratio (1:6) can be prepared from Cv Phule Safed by adopting following process
 - Cutting the onion slice into 2.5 to 3.5 mm
 - Pre treating the slices with 0.2 % KMS and drying at 55°C for 8 to 9 hr.
 - Packing of flakes in laminated pouches for storage upto 90 days at ambient temperature.
41. Use of maltodextrin as a coating material for microencapsulated of β – carotene is recommended for better encapsulation efficiency (75 %) with higher β – carotene retention (75 % and 81 % at ambient and refrigerated conditions, respectively) upto 60 days of storage with low cost as compare to potato starch and gelatin.
42. It is recommended to prepare good quality cookies with enriched iron (4 mg/100g) and β – carotene (2-5 mg/100g) by adopting following process
 - Use of 40 % pearl millet flour and 60 % maida with 4 % microencapsulated β – carotene.
 - Storage of cookies upto 6 months by using

laminated pouches.

43. The process of making good quality fig jam from Cv. Poona Fig by mixing 1kg pulp, 800 g sugar, 2.5 g pectin, 4.75 g citric acid, 350 mg sodium benzoate and heating to achieve total soluble solids upto 73°C and storage in standy pouch for six months is recommended.
44. Sweet sorghum genotype RSSV 313 is recommended as a donor parent in crop improvement programme based on specific physiological traits like stay green rating, juice brix and high biomass.
45. Developed and validated SSScM1 and SSScM3 SCAR markers are recommended for early, rapid and precise selection of salinity tolerant plantlets in sugarcane improvement programme.

IV Plant Protection

46. Seed treatment with thimethoxam 30 % FS @ 7.50 ml /10 kg wheat seed as preventive measure is recommended for the control of wheat aphids, jassid and shoot fly .
47. Two sprays of Beauveria bassiana 1.15 % WP @ 40 g /10 lit of water, first at ETL and second at an interval of 15 days are recommended for management of rice leaf folder.
48. Three sprays of Cymoxanil 8 % + Mancozeb 64 % WP fungicide @ 30 g along with the sticker 10 ml per 10 lit watre are recommended at 10 days interval,. starting from the appearance of the disease for control of downy mildew disease and better yield of bittergourd in kharif season.
49. Fertilizers and nutrients per tree are recommended in the following table for saving of 25 % N, getting higher yield and returns in banana.



Sr. No.	Fertilizers	Time of application of fertilizers and nutrients								Total Nutrients
		At Planting	Days after planting							
			30	75	120	165	210	255	300	
1	FYM + Biofertilizers	Mix 25 g Acetobacter + PSB 25 g in 10 kg FYM and apply	--	--	--	--	--	--	--	
2	Nutrients									
	N	—	30 g	30 g	30 g	30 g	10 g	10 g	10 g	150 g
	P ₂ O ₅	40 g	--	--	--	--	--	--	--	40 g
	K ₂ O	50 g	--	--	--	50 g	--	50 g	50 g	200 g

V Agril. Enggining

50. Van Schilfgaarde's (unsteady state) equation is recommended for optimal design of subsurface drainage system (for deciding spacing and depth of drain pipes) under waterlogged, heterogeneous, and deep impervious layered Vertisols of Maharashtra.
51. The plantation of marigold (August planting) at 65 × 30 cm spacing in red shade net house with 50% shading and daily drip irrigation at 85% ETr is recommended for higher yield, returns and water use efficiency.
52. The plantation of cucumber (February planting) in red shade net house with 50% shading and daily drip irrigation at 60% ETc with silver-black plastic mulch is recommended for higher yield, returns and water use efficiency.
53. Scheduling of daily drip irrigation at 100 % ETc to gerbera grown in coco-peat in pots under naturally ventilated polyhouse is recommended for higher better quality flower production in Western Maharashtra.
54. Weekly average "reference evapotranspiration" developed by Mahatma Phule Krishi Vidyapeeth for Tahsils of Western Maharashtra are recommended for computation of water requirement of different crops. Further, the maps developed in Geographical Information System (GIS) are recommended for estimating the values of weekly average reference evapotranspiration at the specified location.
55. Irrigation at 80 % ETc through drip irrigation at alternate day is recommended for maximum production of rabi onion on raised bed in medium deep black soils of Western Maharashtra.
56. "Phule Irrigation Scheduler" mobile app is recommended for decision making support on irrigation water requirement and time of operation of surface, sprinkler and drip irrigation methods for different crops.
57. "Phule Jal" mobile app is recommended for estimation of reference evapotranspiration by different methods for deciding irrigation schedules.
58. The tables developed by Mahatma Phule Krishi Vidyapeeth for Tahsils of Western Maharashtra are recommended for estimating weekly water and irrigation requirement of wheat (normal, early and late sowing) by surface and sprinkler methods. Further, the maps developed in Geographical Information System (GIS) are recommended for estimating weekly water and irrigation requirement by surface and sprinkler methods.
59. "Phule Irrigation Scheduler" computer software is recommended for decision making support on

irrigation water requirement and time of operation of surface, sprinkler and drip irrigation methods for different crops.

60. The drainage coefficient (mm) values developed by Mahatma Phule Krishi Vidyapeeth are recommended for the design of surface drainage system for Tahsils of Nandurbar, Dhule, Jalgaon, Pune and Kolhapur districts. Further the maps developed in Geographical Information System (GIS) are recommended for estimating the drainage coefficient values.
61. The tables developed by Mahatma Phule Krishi Vidyapeeth for Tahsils of Western Maharashtra are recommended for estimating weekly water and irrigation requirement of sugarcane (Adsali, preseasonal and suru) by surface and drip methods. Further, the maps developed in Geographical Information System (GIS) are recommended for estimating weekly water and irrigation requirement by surface and drip methods.

VI. Social Science

62. The incremental cost-benefit ratio of value addition in the processing of Aonla candy, Jamun juice and Phule (Mango) drinks were 1.96, 1.23 and 1.15, respectively, which were more than direct fruit sell. It is recommended that the farmers and agri-entrepreneur be encouraged to process these value added products on large scale for better profit margin.
63. The benefit-cost ratio of high capital intensive capsicum cultivation was 1.94 and 2.04, while, the IRR was 38.84 and 36.13 per cent for polyhouse and shed net, respectively. It is recommended that farmers be encouraged to cultivate the capsicum under polyhouse and shed-net cultivation for better profit margin.

64. The high capital intensive gerbera cultivation in all types of polyhouse units were found economically viable as the magnitudes of B: C ratio was more than unity (1.10 to 1.24) and IRR was more than market rate of interest (25 to 42 %). It is recommended that farmers be encouraged to cultivate Gerbera under polyhouse for better returns.
65. As pomegranate orchards are getting destroyed due to improper selection of seedlings and water management it is recommended that State Department of Agriculture, State Agricultural Universities and pomegranate growers should jointly transfer improved technology about these aspects to the pomegranate growers.
66. As farmers knowledge and adoption of high iron content Bajra variety Dhanshakti (81ppm) is low, it is recommended that the Bajra Research Scheme and private Seed Company should jointly create awareness through use of media in public – private partnership mode. SHGs should make available products prepared from this variety in the market for anemic women and children.
67. Seed production programme of University released onion varieties is recommended to be undertaken in cluster of villages for increasing seed availability. Also, for increasing the adoption of seed treatments, fertilizer dose, drying and curing of onions and use of fungicides in onion storage structures, Agricultural University and State Agriculture Department should Organize trainings, demonstrations and group discussions on large scale.
68. Enhancement of chickpea productivity by application of IPM technology and use of sprinkler for protective irrigation is necessary. It is recommended that the State Agricultural



University and State Department of Agriculture should popularize these technologies through use of mass media and by organizing trainings and demonstrations as to increase its low knowledge and adoption.

69. The adoption of wheat growers about Phule

Samadhan variety suitable for timely and late sown conditions and Phule Netravati variety suitable for restricted irrigation conditions is low due to unavailability of seed inspite of having knowledge and preference. Large scale seed production programme for increasing availability of seed is recommended for increasing adoption.

Seed Production Programme of 2015-16

(Fig. in qtls)

Year	Foundation and Breeder Seed Production (q)	Total Certified and Truthful Seed Production (q)	Total Production
2015-16	6,191	14945 (HOPE)	21,136

Production of planting material of Horticulture Crops

Nursery plants /Grafts	Ornamental plants	Total	Vegetables (q)		
			Breeder	Truthful	Total
753292	22983	776275	8.40	203.54	211.94

Biopesticides and Biofertilizer production

Particulars	Liquid (Litre)	Solid (MT)
Biofertilizers	5445	47.294

4. Extension Education

The Extension education activities include training of extension personnel, officers of development departments, farmers and dissemination of information through trainings, demonstrations, meetings, discussions, farmers rallies, farm and home visits, exhibitions, publications, newspapers, magazines, etc.

Extension education activities are being undertaken through Directorate of Extension Education, Agriculture College Extension Blocks, Agril. Technology Information Centre (ATIC), Communication Centre, Regional Extension Centres (RECs), Krishi Vigyan Kendras (KVK), Zonal Agricultural Research and Extension Advisory Committee Meetings (ZAREACs). The Directorate of Extension Education was set up in 1981 with following objectives.

- To conduct short and long duration vocational training 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.
- To provide farm information services through various extension activities
- To demonstrate the improved technology on the farmer's fields to convince them about advantages and benefits of improved technology i.e. result demonstration.
- To solve local problems in the light of research findings and getting feedback for strengthening research.

In addition to this, this Directorate performs following activities

1. Co-ordination of extension education activities in the jurisdiction of University.

2. Co-ordination of Communication Centre, RECs, DEC's, ATIC and AICs functioning.
3. Organization of trainings.
4. Organization of Farmers Rallies and Exhibitions.

With a view to fulfilling the mandatory requirements of extension education the extension education activities are undertaken by the Mahatma Phule Krishi Vidyapeeth, Rahuri through the following units:

1. Krishi Vigyan Kendra

KVK, Dhule was established in May 1983, while; KVK, Mohol (Solapur), Borgaon (Satara) and Mamurabad Farm (Jalgaon) was established in the year 2011-12 under the jurisdiction of Mahatma Phule Krishi Vidyapeeth, Rahuri for the operational areas in the above districts with following objectives.

1. To organize need-based training in agriculture and allied enterprises to practicing farmers, farm women, rural youth and extension functionaries.
2. To conduct front line demonstrations on farmers' field's on various production technologies about important crops of the district.
3. To conduct on farm trial/adaptive trials in agriculture and allied enterprises based on location specific problems.
4. To organize different extension activities to disseminate technologies.

2. 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 the 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.

3. Regional Extension Centres (REC)/ District Extension Centres (DEC)

To test and transfer the improved technology from time to time in adjoining areas of respective research and educational institutes, three RECs are started at the constituent colleges viz., Pune, Dhule and Kolhapur and one at Central Campus, MPKV, Rahuri. Regional Extension Centre consists of four SMS in the subject of Agronomy, Animal Husbandary, Horticulture and Plant Protection. The activities of each REC are governed by Extension Agronomist at regional level which is technically controlled by Director of Extension Education.

To carry out extension education activities effectively and efficiently, five District Extension Centres (DECs) have been started at different research stations viz., Jalgaon, Padegaon (Satara), Solapur, Digraj (Sangli) and Niphad (Nashik). No separate staff is provided for DECs. The important objectives of the innovative programme are:

1. To organize short duration training classes for upgradation of knowledge of existing staff.
2. To arrange farmers trainings for addressing issues in farming.
3. To interact with farmers and officers for getting feed back on research findings.
4. To organize monthly meetings of different allied

departments and interact on various field problems.

5. To integrate teaching, research and extension education activities.

The staff under the RECs and DECs usually undertakes activities relating to transfer of technology in the adjacent areas. The activities like monthly district workshops, fortnightly trainings, demonstrations on farmers fields, farmers' rallies and technical guidance to farmers are also organized by the centre.

Every Regional Extension Center and District Extension Centre are provided a 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. The itenery of this activity is announced and communicated well in advance to the farmers of respective villages and accordingly the farmers avail the guidance and necessary help to solve their problems.

4. Communication Centre

The Communication Centre of Mahatma Phule Krishi Vidyapeeth, Rahuri was established in May 1982 with the financial assistance of ICAR. However, after discontinuance of the financial assistance from the ICAR, it is being run with own resources of the university. The centre is established for effective use of mass media in transfer of technology. The unit produces different type of farm literature, publicity of news items, organization of exhibitions, organizing broadcasting of Agril. Programmes for transfer of technology through All India Radio and Doordarshan and organizing public relation media for communication of agricultural technology and guidance through correspondence.

5. Agricultural Technology Information Centre

The Agricultural Technology Information Centre (ATIC) is a single window delivery, dissemination and supporting system for various innovative and



farm worthy techniques evolved at the university and affiliated organizations in the pursuit of research and excellence. This centre started its actual functioning w.e.f. 13th August, 2001 with the following objectives.

1. To empower farmers through direct access to information and knowledge.
2. To create strong linkage between different research divisions, units and user technology users.
3. To help farmers in problem solving and decision making.
4. To facilitate and dynamic feed forward and feed back mechanism.
5. To bridge the gap between attainable and attained in the crop, livestock development and production.
6. To generate financial resources through sales and services.
7. To disseminate the new technologies developed by the University through organizing Farmers Rallies, Field Visits and Agril. Exhibitions.

The ATIC is supervised by a Manager with four subject matter specialists (SMS) Agronomy, Horticulture, Plant Protection and Animal Husbandry & Dairy. The extension activities like field visits, replying the queries of the farmers and other stakeholders and the centre performs diagnostic services in coordination with the other departments of the University. Besides, seed and seedlings, processed products and publications are also sold through ATIC to the end users. Helpline and Kisan Call Centre are operational at this centre for addressing the issues of the farmers.

The Public Relations Office is also located at the ATIC. Public Relations Officer (PRO) guides and coordinates the visits of visitors. The annual publication Krishidarshani, quarterly periodical Shri Sugi and other publications are sold through the PRO office.

Major Extension Activities

- The training programme for 'KCC Agents/ Supervisors/Co-ordinators (Rabi)' in two batches was organized at College of Agriculture, Pune in collaboration with MANAGE, Hyderabad. The function was chaired by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri. Total 60 KCC agents were participated in this training programme. The Director of Extension Education, MPKV, Rahuri and other dignitaries from MANAGE, Hyderabad guided the participants.
- The staff review meeting RECs, DEC's, ATIC, Communication Centre and KVKs were organized. All extension scientists made brief presentation of extension activities of last year. In all 70 scientists and staff from all RECs, DEC's and KVKs attended the meeting.
- **Action Plan Workshop of KVK:** Mahatma Phule Krishi Vidyapeeth, Rahuri and Zonal Project Directorate, Hyderabad jointly organized an Action Plan Workshop of KVKs for western Maharashtra at MPKV, Rahuri. The Programme Co-ordinators of KVKs presented their action plan and it was finalized in consultation with university experts. The workshop was inaugurated by Hon'ble Vice-Chancellor Dr. T. A. More. Dr. N. Sudhakar, Zonal Project Director, Zonal Project Directorate, Zone V, Hyderabad was present as a chief guest. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri and other dignitaries guided the participants. In all 137 Programme Co-ordinators, SMSs and other staff of KVKs participated in the programme.
- The KVK, Borgaon organized Agriculture Mechanization Day at Taluka Seed Farm, Karad in collaboration with Department of Agriculture (MS). The function was chaired by Dr. K.D. Kokate,



Director of Extension Education, MPKV, Rahuri. Total 105 farmers participated in this programme.

- The training programmes on Eco Friendly Pest and Disease Management and Integrated Crop Management Technology Dissemination were organized at Central Campus, Rahuri respectively in collaboration with Zonal Project Directorate, Hyderabad. Experts from university gave information on various topics related to the selected training topics. In all 29 participants from various KVKs attended these training programmes.
- The Monthly District Workshops were jointly organized by the MPKV, Rahuri and Dept. of Agriculture M.S. in the jurisdiction of MPKV, Rahuri. In all 30 MDWs were organized. 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 Krishi Vigyan Kendras on farmer's field. These visits were jointly organized in collaboration with the Department of Agriculture (M.S.).
- Agro Technology Week was celebrated at Krishi Vigyan Kendra, Dhule and at Krishi Vigyan Kendra, Mohol. Front line demonstrations, Agril. Exhibition etc. were organized at central farm of Krishi Vigyan Kendra. The inaugural function was presided over by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri. The five day technical programme covered various technical deliberations from diversified field of agriculture. The farmers, students from the KVK jurisdiction visited the crop cafeteria depicting various technologies recommended for farmers.
- Agro Technology Week was celebrated at Krishi Vigyan Kendra, Mohol. Front line demonstrations, *Mahila Melawa* etc. were organized at central farm of Krishi Vigyan Kendra. The inaugural function was presided over by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri. The three day technical programme covered various technical deliberations from diversified field of agriculture. The farmers, women farmers, youths from the KVK jurisdiction participated in the Agro Technology Week.
- The Zonal Research and Extension Advisory Council's meeting (Kharif -2015) was organized at College of Agriculture, Pune on 24th June, 2015 for Nashik, Pune and Kolhapur divisions. Shri Vikas Deshmukh, Hon'ble Commissioner of Agriculture (M.S.) was the chief guest. The function was chaired by Dr. T.A. More, Hon'ble Vice Chancellor, MPKV, Rahuri. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri made brief presentation on 'Agri is no More Aggrieved' and Action Taken Report and guided the participants. All directors from Dept. of Agriculture, Heads of Departments, MPKV, Rahuri, Crop Specialists, In-charge Officer, Communication Center, MPKV, Rahuri, District SAOs were present for the meeting. In all 190 participants including SDAOs, TAOs and Programme Co-ordinators from KVKs and Scientists from university attended the said meeting.
- The three staff review meetings of staff of Directorate of Extension Education, Communication Centre and University Press were organized during April to June, 2015. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri chaired these meetings and guided the participants. All staff from DEE office, Communication Centre and University Press



participated in these meetings.

- A farmers training programme on 'Crop Production Technology' was organized at ATIC, MPKV, Rahuri under RKVY project during June 2015. Director of Research Dr. R. S. Patil was present for the programme and guided the participants. 50 onion producers attended the training programme.
- The Scientific Advisory Committee meetings was held at Krishi Vigyan Kendra, Baramati on June 16, 2015. The meeting was organized to review the progress made by KVK and their future action plan. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri participated in the meeting and guided the KVK staff.
- The farmers rally on 'White Grub Management Technology' was organized by Regional Extension Centre, Kolhapur on June 13, 2015 at *Kasarwadi*. The programme was chaired by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri. Large number of sugarcane growers were present.
- The Zonal Research and Extension Advisory Council's meeting (Rabi and Summer -2015) was organized at College of Agriculture, Kolhapur on 11th September, 2015 for Nashik, Pune and Kolhapur divisions. The function was chaired by Dr. T.A. More, Hon'ble Vice Chancellor, MPKV, Rahuri. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri made brief presentation and Action Taken Report and guided the participants, while, Director of Research Dr. R.S. Patil briefed about various recommendations and released varieties. Dr. K.V. Deshmukh, Director, Extension and Training, Dept. of Agriculture, MS guided the participants. All Directors and Joint Directors from Dept. of Agriculture, Heads of Departments, MPKV, Rahuri, Crop Specialists, In-charge Officer, Communication Center, MPKV, Rahuri and District SAOs were present for the meeting. In all 187 participants including SDAOs, TAOs and Programme Co-ordinators from KVKs and scientists from university attended the said meeting.
- The 10th National Symposium of Indian Agricultural Universities Association (IAUA), New Delhi was organized at central campus, Rahuri in co-ordination with Mahatma Phule Krishi Vidyapeeth on the theme Innovative Approaches Harnessing Agricultural Sciences for Society during July 21-23, 2015. Dr. S. N. Puri, Former Vice-Chancellor, CAU, Imphal and MPKV, Rahuri was the Chief Guest for the inaugural function. Prof. M. C. Varshneya, Senior Vice- President, IAUA and Vice-Chancellor, KU, Gandhinagar presided over the function. The valedictory session was held under the chairmanship of Dr. K. M. Bujarbaruah, Vice-Chancellor, AAU, Jorhat, Co-Chairman Dr. T. A. More, Vice-Chancellor, MPKV, Rahuri, Convener Dr. K. D. Kokate, DEE and Executive Secretary Dr. R. P. Singh. The delegates visited the NICRA village Nirmal Pimpri and KVK, Babhaleshwar in Ahmednagar district. A visit to the MAHYCO Life Sciences Resource Centre at Jalana was also organized on July 23, 2015. In all 23 Vice-Chancellors, Directors of different Universities participated in the programme.
- The Agriculture Day was celebrated on 2nd July, 2015 in Karnj village of Pune district organized by College of Agriculture, Pune and RAWE students. Dr. Ram Kharche, Vice-Chairman, MCAER, Pune was the chief guest, while, Dr. D.W. Thawal, AD, AC, Pune presided over the function. In all more than 100 farmers participated in the programme.
- The Contingent Plan Review meeting for



Ahmednagar district was organized at central campus, Rahuri by Mahatma Phule Krishi Vidyapeeth in co-ordination with Agriculture Department during the month of July 2015. Dr K.D. Kokate, Director of Extension Education presided over the function. Shri Ankush Mane, District Superintendent Agriculture Officer gave a presentation on current crop situation of the district. Shri Sambhaji Gaikwad, Deputy Director, ATMA briefed about the crop situation. The university scientists guided the farmers and extension workers on contingent crop management technology. Large number of farmers and extension personnel from Dept. of Agriculture participated in the meeting.

- A twenty one day training programme on Pre and Post Harvest Management for Enhanced Food Production was organized at MPKV, Rahuri under the Center for Research on Advanced Faculty Training in Horticulture (Fruits) by the Department of Horticulture. Dr. T.A. More, Vice Chancellor, MPKV, Rahuri inaugurated the programme. Dr. K.D. Kokate, Director of Extension Education, Dr. B. R. Ulmek, Dean (F/A) and Director of Instructions and Dr. Prakash Pawar, Registrar and university scientists were present for the inaugural session. The scientists from Punjab, Sikkim, Gujarat and other states participated in this training programme.
- A state level meeting of Agriculture Advisory Committee was organized in the university in collaboration with Doordarshan Kendra, Mumbai on September 4, 2015. Dr. K.D. Kokate, Director of Extension Education chaired the meeting. Dr. Umashankar Singh, Joint Director (Mass Media), Shri. Shivaji Fulsundar, Dy. Director General DD, Mumbai was present for the meeting. The meeting

was conveyed for discussing the various topics to be included in different programmes on agriculture theme. Officers of Doordarshan Kendra, Pune, Nagpur, AIR, SAUs and various line departments and progressive farmers were present on this occasion.

- The Dept. of Food Science and Technology, PGI, MPKV, Rahuri organized one month training programme on 'Fruit and Vegetable Processing technology' during July 2015. The inaugural function of the training was chaired by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri. He guided the participants regarding new avenues in the processing industry and its importance. Dr. S. S. Thorat, Head, Dept. of FST and others were present for the function. In all 31 trainees attended the said training programme.
- A three day Peripatetic Training Programme on "Time and Stress Management for Better Performance of Extension Personnel" was organized by the Department of Extension Education, MPKV, Rahuri in co-ordination with Extension Education Institute, Anand, Gujarat. Dr. S. B. Shinde, Head, Department of Extension Education and Course Co-ordinator, Dr. M. R. Patel, Associate Educationist and Mr. Prajapati EEI, Anand were present for the programme. The inaugural function was presided over by Dr. K.D. Kokate, Director of Extension Education, while, the valedictory programme of this workshop was chaired by Dr. B. R. Ulmek, Dean, Faculty of Agriculture. About seventy scientists from University participated in the training programme. The EEI faculty Dr. M. R. Patel and Mr. Prajapati guided the trainees.
- A three day training programme on Goat Rearing was organized by the All India Co-ordinated



Sangamneri Project, Dept. of ASDS, MPKV, Rahuri in co-ordination with ATMA, Ahmednagar and IMS, Ahmednagar. Dr. K.D. Kokate, DEE, inaugurated the programme. Dr. Y.S. Fulpagare, HOD, ASDS, Dr. Sharad Kolte, Director, IMS, Ahmednagar, Shri. Sambhaji Gaikwad, Dy. Director, ATMA, Shri. Rakesh Pangat, District Manager, NABARD and University scientists present for the training programme. Large number of farmers participated in the training programme.

- A workshop of Farmers Producer Company was inaugurated by Director of Extension Education Dr. K.D. Kokate. The programme was organized by MPKV, Rahuri, ATMA, Ahmednagar, Maharashtra Competitive Agricultural Development Project, Garbhagiri Farmers Producer Company Ltd., Wambori and Samruddhi Pvt. Ltd. Dr. Kokate inaugurated the Market Linkage workshop and Soil Water Testing Laboratory. Shri. Bhausaheb Barhate, Project Director, ATMA, Ahmednagar, Shri. Anilkumar Shitole, Nodal Officer, MCADP, Pune and university scientists were present for the programme.
- The Model Training Course on 'Effective Communication for the Enhancement and Upliftment of Rural People' was organized during October 26-November 02, 2015. The course was organized by the Department of Extension Education, MPKV, Rahuri with financial support from Ministry of Agriculture, GOI, New Delhi. The inaugural function was chaired by Dr. K. D. Kokate, Director of Extension Education, MPKV, Rahuri.
- *The Rabi Krishi Sammelan* was organized by Krishi Vigyan Kendra, Jalgaon on November 2, 2015. The function was chaired by Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri while,

Hon'ble Member of Parliament Shri A.T. Nana Patil was the chief guest. During this event an Agril Exhibition was also organized. In all more than 250 farmers attended the said programme.

- *The Krishi Sammelan* was organized by Krishi Vigyan Kendra, Borgaon on November 7, 2015. The function was chaired by Dr. T.A. More Vice-Chancellor, MPKV, Rahuri. Dr. K.D. Kokate, Director of Extension Education, MPKV, Rahuri attended and guided the participants. In all more than 200 farmers attended the said programme.
- Farmers participated in the Course Cereals Development programme under NFSM on Rabi Sorghum at Parinche, Tal. Purandar organized by Department of Agril. and REC, Pune.
- The Krishi Vigyan Kendra had celebrated the '*Jay Kisan Jai Vigyan*' week during 23-28 December, 2015 and organized various extension activities for farming community. Total 24 extension programmes were organized.
- The Krishi Vigyan Kendra had celebrated the '*World Soil Day*' on 5 December, 2015 and distributed Soil Health Cards to the farming community. Total 1015 Soil Health Cards were issued.



Directorate of Extension Education

Major Extension Activities carried out by Regional Extension Centres, District Extension Centres and Krishi Vigyan Kendras (2015-2016)

Sr. No.		Extension Activities	By RECs & DEC's		By KVKs	
			No. of activities	Participant farmers	No. of activities	Participant farmers
1. Training Programmes organized						
	i.	For farmers, farm women and youth	51	1639	171	6831
	ii.	For staff of development department (State Agril Dept and others)	38	2519	17	759
	iii.	Interaction training programme between farmers and scientists	30	1456	25	3125
2. Workshop, seminars participated						
	i.	Monthly district workshops	54	1640	12	202
	ii.	Zonal workshops (ZAREAC) Rabi and Summer	4	526	02	--
	Iii	Farmer Scientists Forum meetings organized	36	1564	02	74
3. Demonstrations and farm trials						
	i.	Method demonstrations	28	1071	28	620
	ii.	Result demonstrations / Assesment Trials (OFTs)	193	193	14	145
	iii.	Front line demonstrations & Adaptive trials	667	1072	24	500
4. Other extension education programmes						
	i.	Meeting and group discussion (<i>Kisan Goshti</i> etc.)	130	6003	60	3356
	ii.	Field visit/shivar pheries	607	3502	26	1881
	iii.	Field days			07	133
	iv.	Farm and home visits			83	590
	v.	Farmers rallies organized / participated	88	6174	01	40
	vi.	Agril. Exhibition organized	9	--	01	--
	Vii	Agril Exhibition participated	34	--	13	--
	vii.	Diagnostic team visit	162	652	170	749
	viii.	Surveillance team visit	60	605	42	388
	ix.	Lectures by university scientists in different Extn. programme organized by Agril. Dept. & NGOs	164	7836	110	5302



5.		No. of persons visited				
	i.	Farmers	--	53973	--	2416
	ii.	Students	--	7624	--	195
	iii.	Trainees	--	3428	--	3926
	iv.	Officers	--	2218	--	373
6.		Extension Publications (Folders, Leaflets, Booklets, Popular Articles, CDs etc)	04	--	33	--
7.		Media Coverage				
		News Articles	74	--	92	--
		Radio Talks	61	--	42	--
		TV Talks (Doordarshan and Pvt TV Channels)	25	--	07	--
8.		Other Extension Activities				
	i.	Agro Advisories (Telephone, SMS etc.)	192	678	556	20587
	ii.	No. of water samples tested	405	405	28	28
	iii.	No. of soil samples tested	940	940	190	190
	iv.	No. of Soil Health Card Issued	230	230	378	378
	v.	No. of pests samples tested	65	65	--	--
	vi.	No. of diseases samples tested	70	70	--	--
	vii.	Help line/Telephone Calls attended	5264	5264	992	992
9.		Any other (<i>Swacchha Bharat Abhiyan, Jai Kisan Jai Vigyan, Kisan Sammelan etc.</i>)	01	100	04	750
10.		Vanmohotsav	03	275	03	300



5. Major Events

April-2015

Anniversary of Great leaders celebrated



The anniversary of great leaders Shri. Mahatma Jotiba Phule & Bharatratna Dr. B. R. Ambedkar was celebrated in the University. Prof. Ramnath Chavan, Head, Lokshahir Annabhau Sathe, Education Department, Savitribai Phule Pune University was the chief guest on this occasion. Dr. K. D. Kokate, Director, Extension Education presided over the function.

Prof. Chavan in his chief address emphasized the need of adopting ideals of these great leaders. These leaders fought for the equity of the society. In his presidential address Dr. K.D. Kokate said that India has a history of great tradition and culture. The youth of the country should propagate the great work of these social workers. Dr. R. S. Patil, Director of Research gave the introductory address, Registrar Shri. Sunil Wankhede introduced the chief guest and Dr. P.A. Turbatmath expressed the vote of thanks. The Heads of Departments, scientists and students were present on the occasion.

Visit to fields of F-S-F members



Dr. K. D. Kokate Director, Extension Education, visited the field of the progressive farmer Shri Vishwanath Patil member of farmers-scientist forum, Ambup village of Kolhapur district. On this occasion he said, the model farm of Shri. Vishwanath Patil should be emulated by other farmers of the region. He praised the innovative efforts of Shri. Patil regarding the intercropping and water management.

Dr. G. G. Khot, AD, AC, Kolhapur, Dr. S.N. More, Chief Scientist, Sugarcane & Jaggery research center, Dr. Ashok Pisal, Extension Agronomist, REC, Kolhapur, Dr. Vijay Tarde, Prof. of Extension Education, scientists and students were present during this visit.

State level Workshop organized



A state level workshop on National Information system for Indian Agriculture Education Network was organized at Collage of Agriculture, Pune by the University in the coordination with Indian Agricultural Statistical Research Institute, New Delhi. Dr. D.W. Thawal, AD, AC, Pune inaugurated the workshop. In his address highlighted the importance of information technology in agriculture. Dr. Sudhir Marwal, Sr. Scientist, IASRI, New Delhi gave information about the workshop. He hoped that the complied information of agriculture education of the country will be useful to the scientists and the students. Dr. A.S. Shivgaje, Co-ordinator, AKMU gave the introductory remarks. Shri. Sayed, Asstt. Registrar expressed vote of thanks.

May-2015**Joint AGRESCO of SAUs organized**

The 43rd meeting of Joint Agriculture Research and Development Committee of four SAUs of Maharashtra was organized by MPKV, Rahuri at central campus in co-ordination with Maharashtra Council of Agriculture Education and Research (MCAER), Pune.

Shri. Ram Shinde, Hon'ble Minister of State for Agriculture and Guardian Minister of Ahmednagar district was the chief guest of inaugural function. Dr. T.A. More, Vice-Chancellor, MPKV, Rahuri presided over the function. Shri. Dilip Gandhi Hon'ble Member of Parliament, Dr. Ram Kharche, Vice-Chairman, MCAER, Pune, Vice-Chancellors of SAUs of Maharashtra Dr. B. Venkateswarlu (VNMAU, Parbhani) and Dr. BSKKV, Dapoli), Dr. R.G. Dani (Dr. PDKV, Akola), Dr. Sudhir Kumar Goyal, Principal Secretary (Agriculture) and Directors Dr. K.D. Kokate, Dr. R.S. Patil, Dr. B.R. Ulmek were present on the dias.

In his chief address Shri. Ram Shinde emphasized the need for proper co-ordination between Agriculture Department and SAUs for micro planning of Kharif season. He further said that our agriculture has suffered a lot due to fluctuations of weather. We need to overcome these challenges through appropriate interventions of technology. Dr. T. A. More, Vice Chancellor in his address highlighted the contribution of SAUs for agriculture development of the state. He said that since 1973 the SAUs have released 608 improved crop varieties, 4190

technology recommendations and 92 improved farm implements for the benefit of farmers. Dr. Ram Kharche stressed the need for confidence building among the farmers for increasing crop production. Dr. Goyal appreciated the SAUs efforts for agriculture development and expected that the scientists need to participate more in extension programmes. Dr. R.S. Patil, DOR gave the welcome address. An agriculture exhibition was organized on this occasion. Various publications were released on this occasion. Dr. Prakash Shingare, DOR, MCAER proposed vote of thanks. Eleven varieties, 3 farm implements and 64 technology recommendations of MPKV were released during 43rd Joint AGRESCO. Shri. Vikas Deshmukh, Commissioner, Agriculture was the Chief guest for the concluding session. Dr. Ram Kharche, Vice Chairman, MCAER presided over the function.

June-2015**ZAREAC meeting organized**

The Zonal Agriculture Research and Extension Advisory Committee (ZAREAC) meeting for Kharif-2015 was organized by Mahatma Phule Krishi Vidyapeeth in co-ordination with Agriculture Department, Govt. of Maharashtra at College of Agriculture, Pune. Vice Chancellor Dr. T. A. More presided over the function, while, Shri. Vikas Deshmukh, Commissioner of Agriculture, M. S. was the Chief Guest. In his presidential address Vice Chancellor Dr. T.A. More said that the university is giving emphasis on weather based research in view of



frequent fluctuations in climate. He said that there is a need to increase the production by using optimum resources and use of genetically modified crops to meet the increasing demand of food.

Shri. Vikas Deshmukh in his address hoped for good co-ordination between research and extension workers for the development of agriculture. The extension agency need to give more emphasis on soil and water conservation technologies in view of scarcity of water. Dr. K.D. Kokate, Director of Extension Education gave a presentation on yield gap analysis of Kharif crops. He stressed the need for bridging the gap between the actual crop production and potential yield.

Dr. R.S. Patil, Director of Research presented the information on new crop varieties, farm implements and recommendations released during this year. The university publication Shri Sugi (kharif) was released on this occasion. Shri. Tushar Pawar, Member, Executive Council of the university, Directors of Agriculture Shri. Suresh Ambulekar, Dr. Sudam Adsul, Shri. Jayant Deshmukh, Dr. Prakash Shingare, DOR, MCAER, Pune, Joint Directors of Agriculture Shri. Vijay Kumar Ingale, Shri. Narayan Shisode, Shri. Kailas Mote, Heads of Department, Agriculture officers, University Scientists, ADRs, PCs of KVKs were present on this occasion. Dr. V.S. Shirke anchored the programme, while, Dr. D.W. Thawal, Associate Dean, AC, Pune proposed vote of thanks.

International Yoga Day celebrated



The International Yoga Day was enthusiastically celebrated in the university under the guidance of Vice-Chancellor Dr. T.A. More. While addressing the staff and students Dr. K.D. Kokate, DEE said that the Yoga science is a great boon to the society. It is a great gift by India to the world. The United Nations has declared 21st June as the International Yoga Day.

Shri. Suresh Sawant, Yoga Scholar and volunteer in his guidance narrated the benefits of yoga in the life of human beings. On this occasion he demonstrated the various Yoga positions.

Dr. R. S. Patil, DOR introduced the chief guest. Mrs. Rajeshree Ahirrao, Tahasildar, Rahuri, Dr. P.A. Turbatmath, AD, Dr. ASCAE, Registrar Shri. Sunil Wankhede, Shri. B.G. Nirmal, Comptroller, Heads of Department, staff and students were present on this occasion. The students of Savitribai Phule Primary and Secondary School participated in large numbers.

July 2015

10th National Symposium of IAUA organized



The 10th National Symposium of Indian Agricultural Universities Association (IAUA), New Delhi was organized at central campus, Rahuri in co-ordination with Mahatma Phule Krishi Vidyapeeth on the theme Innovative Approaches Harnessing Agricultural Sciences for Society.

Dr. S. N. Puri, Former Vice Chancellor, CAU, Imphal and MPKV, Rahuri was the Chief Guest for the inaugural function. Prof. M. C. Varshneya, Senior

Vice President, IAUA and Vice Chancellor, KU, Gandhinagar presided over the function. At the outset Dr. T. A. More, Chairman of the National Symposium and Vice Chancellor, MPKV, Rahuri welcome and felicitated the dignitaries on the dias. In his welcome address Dr. More highlighted the significant education, research and extension achievements of the university. He said that 18 international students are admitted in the University under India-Africa and India-Afghanistan Fellowship programmes. Further, he said that since inception MPKV has developed and released 237 improved varieties / F1 hybrids of 60 crops, 1250 crop production technologies and 120 different types of farm implements and machineries. He said that a Farmer FIRST project has been sanctioned to the university under RKVY.

Dr. R. P. Singh, Executive Secretary, IAUA in his introductory remarks highlighted the theme of the symposium. He said that innovations are needed for supporting agriculture. Out of Box Thinking or new thoughts are very much essential in the agriculture sector. He emphasized on low volume and high value crops.

Prof. M. C. Varshneya, Senior Vice President, IAUA and Vice Chancellor, KU, Gandhinagar delivered the presidential address. He said that 66 per cent of the population still lives in rural area and 52 per cent of them are dependent on agriculture and allied sectors for livelihood. Considering this, he highlighted the need of agriculture subject in primary education. For this purpose the investment for agriculture education should be at least one per cent of the GDP of agriculture sector. For quality education, research and extension there is a need for filling the vacant posts in all SAUs on top priority. Autonomy is essential for SAUs and Vice Chancellors should be empowered for filling of posts on priority.

Dr. S. N. Puri, Former Vice-Chancellor, CAU,

Imphal and MPKV, Rahuri delivered the Chief Guest address in this inaugural function. He said that India accounts for only 2.4 percent of world's geographical area, 4 per cent of its water resources, but has to support about 17 per cent of the world human population. While narrating his experiences of North East Region, he opined that Manipur could be a 'Treasure House' for edible oils if supported by adequate efforts. Regarding animal husbandry he felt that cattlefeed is a bottleneck for expansion of dairy business. Dr. Puri said that in view of farmers' suicides there is an urgent need for rethinking and revisiting policies. At present the farmer is unable to share his problems and difficulties. Thus, an effective extension system like the Training and Visit (T & V) is needed to be revisited in the present context.

At the end Dr. K. D. Kokate, Director, Extension Education, MPKV, Rahuri and Convener, IAUA National Symposium proposed the vote of thanks to the participating delegates. Dr. S. D. Gorantiwar anchored the programme.

Technical Sessions on the subthemes Innovations for coping with climate variability, Conservation Agriculture and System based Diversification, Post-Harvest Technology, Value Addition and Speciality Agriculture, Harnessing Innovative Experiences of Technology Applications and Livestock- Cattle, Poultry, Goatery, Fishery were organized during the Symposium. The valedictory session was held under the chairmanship of Dr. K. M. Bujarbaruah, Vice-Chancellor, AAU, Jorhat, Co-Chairman Dr. T. A. More, Vice-Chancellor, MPKV, Rahuri, Convener Dr. K. D. Kokate, DEE and Executive Secretary Dr. R. P. Singh. The delegates visited the NICRA village Nirmal Pimpri and KVK, Babhaleshwar in Ahmednagar district. A visit to the MAHYCO Life Sciences Resource Centre at Jalana was also organized.



Contingent Plan Review Meeting organized



The Contingent Plan Review meeting for Ahmednagar district was organized at central campus, Rahuri by Mahatma Phule Krishi Vidapeeth in co-ordination with Agriculture Department. In his presidential address Dr. K. D. Kokate, Director of Extension Education said the farmers had sown the crops due the timely rains in June. But, thereafter, there has been prolonged break in monsoon due to which the sown crops are in danger. In this situation the contingent crop management technology of university need to be given immediately to the farmers. Shri. Ankush Mane, District Superintendent Agriculture Officer gave a presentation on current crop situation of the district. Shri. Sambhaji Gaikwad, Deputy Director, ATMA briefed about the crop situation. The university scientists guided the farmers and extension workers on contingent crop management technology. Dr. A.V. Solanke anchored the programme, while, Dr. Y.B. Kandalkar proposed vote of thanks.

August 2015

Independence Day celebrated



The 69th Independence Day of the country was enthusiastically celebrated in the university. Vice-Chancellor Dr. T.A. More hoisted the national flag. In his address he reviewed the progress of education, research and extension activities of the university. He announced that the ICAR has sanctioned a sub-center of AICRP on Maize for the university. He applauded the efforts of staff and students for their involvement in Swachha Bharat Abhiyan. Dr. K. D. Kokate, DEE, Dr. R. S. Patil, DOR, Dr. B. R. Ulmek, Dean, F/A, Dr. D. D. Pawar, Registrar, Shri. B. G. Nirmal, Comptroller, Shri. Milind Dokhe, University Engineer, Dr. P. A. Turbatmath, AD, Dr. ASCAE, Heads of Departments, staff and students were present on this occasion. A Blood Donation Camp and tree plantation programme was organized on this occasion. The NCC cadets under the leadership of Lt. Dr. R. N. Kenghe gave ovation to Hon'ble Vice-Chancellor. Security officer Dr. U. K. Kadam anchored the programme.

Visit to RKVY-TOT Chingli Onion Demonstrations



Vice-Chancellor Dr. T.A. More, Shri. Bhausaheb Wackchaure, Ex- M.P. and Member, Executive Council of the University and Dr. R.S. Patil, Director of Research visited the demonstration plots of Chingli onion production technology at Shendi and Nimbalak villages of Ahmednagar district organized under the Rashtriya Krishi Vikas Yojana-Transfer of Technology Project. Vice-Chancellor Dr. T. A. More said that this technology is useful to the farmers in view of changing

climate. The farmers can harvest good production with low cost by adopting this technology. Shri. Wakchaure also emphasized on dissemination of the technology to other regions. Dr. R. S. Patil, Director of Research said that this technology is good example of natural resource management. The farmers can derive good benefits through off season marketing of chingli onion. The university has organized demonstrations of chingli onion production technology on 100 acre fields of farmers in Ahmednagar and Nashik districts. Dr. A. V. Solanke, PI, RKVY anchored the programme. Dr. P. B. Kharde, Co-PI expressed the vote of thanks. Dr. P. A. Turbatmath, Associate Dean, Dr. ASCAE, Dr. S. A. Ranpise, Head, Department of Horticulture, Dr. V. D. Shende, Associate Director of Research, Dr. S. B. Gurav, ADR, Pune, Dr. G. K. Sasane, I/c Communication Centre, Dr. M. N. Bhalekar, Sr. Vegetable Breeder, Shri. Sudhakar Borale, SDAO, Ahmednagar, Progressive farmer Shri. Macchindra Karale, Shri. Sandeep Dere, Shri. M.G. Gawade, Dr. D. P. Pacharne, Officers of Agriculture Department, farmers were present on this occasion.

Training programme on Fruit and Vegetable Processing organized



A thirty days training programme was organized at MPKV, Rahuri on Fruit and Vegetable processing by the Department of Food Science and Technology. The programme was inaugurated by Dr. K. D. Kokate, Director of Extension Education. In his presidential

address Dr. Kokate appreciated the efforts of farmers and scientists for self sufficiency of food grains and horticulture production. He said that the farmers need to apply the processing technology in food grains, fruits and vegetables for increasing their income level. Hence, the skill and knowledge imparted through this training programme will be useful to the trainees, he said. In his introductory remarks Dr. S. S. Thorat, Head, Department of Food Science and Technology said that this is the 34th training programme organized by the Department. He said that majority of the trainees have established their processing units. Dr. P. M. Kotecha anchored the programme, while, Shri. Sudhir Lande expressed vote of thanks. Dr. R. S. Gaikwad and Shri. Ghuge took efforts for organizing this training programme.

HORTSAP workshop organized



A workshop on Pest and Diseases Survey Advisory and Management was organized at MPKV, Rahuri by the Department of Plant Pathology and Microbiology under the RKVY project. Dr. R. S. Patil, Director of Research inaugurated the programme. In his address Dr. Patil emphasized the importance of pest and disease management of pomegranate in view of changing climate. He hoped that the trainees will acquire the latest knowledge on this aspect and disseminate it among the farmers. Dr. S. S. Adsul, Director, Horticulture, M.S. briefed about the HORTSAP project. Dr. S. G. Borkar, Head, Department of Plant Pathology gave



the introductory remarks. Shri. Vijay Kumar Raut, Divisional Director, Horticulture, Dr. S. S. Jadhav, Head, Department of Entomology, scientists and Agriculture Officers were present on this occasion. Dr. C.D. Deokar anchored the programme, while, Dr. K.S. Raghuwanshi proposed vote of thanks. Around 180 Agriculture Officers, pest supervisors and surveyors participated in the two day workshop.

September-2015

Government College of Agriculture sanctioned to MPKV, Rahuri

The Government of Maharashtra has sanctioned a new College of Agriculture to MPKV, Rahuri at Muktainagar, District. Jalgaon from the year 2015-16. The foundation stone of this new College of Agriculture was laid down at the auspicious hands of Shri. Eknathrao Khadse, Hon'ble Minister of Agriculture and Revenue, M.S. Vice-Chancellor Dr. T. A. More presided over the function.

In his address Shri. Khadse said that out of 72 colleges in western Maharashtra there are only eight Government colleges. Every year the trend of students towards agriculture education is increasing. The total admission capacity of agriculture colleges in the state is 15000, but there are almost 54000 students who are eager to take admission for agriculture.

Thus, this new college will serve the purpose of agriculture education in rural areas. Vice-Chancellor Dr. T.A. More expressed satisfaction for starting this new college. Mrs. Mandatai Khadse, Mrs. Rohini Khadse, Shri. Dilip Jain, Principal Secretary, Agriculture, Dr. Ram Kharche, Vice-Chairman, MCAER, Pune, Dr. K. D. Kokate, Director of Extension Education, Dr. B. R. Ulmek, Dean, Faculty of Agriculture, Dr. J. V. Patil, Chairman, Recruitment Board, MCAER, Pune and other dignitaries were present on this occasion.

Training programme organized under CAFT



A twenty one day training programme on Pre and Post Harvest Management for Enhanced Food Production was organized at MPKV, Rahuri under the Center for Research on Advanced Faculty Training in Horticulture (Fruits) by the Department of Horticulture. In his inaugural address Vice-Chancellor Dr. T. A. More highlighted the importance of pre and post harvest management of fruit crops. He said that the country produces about 277 million tons of fruits and vegetables and 264 million tons of food grains but processing is done on only 2 % of total farm produce. Hence, there is large scope and opportunities for processing industries in country. This will ultimately benefit the farmers. Dr. K. D. Kokate, Director, Extension Education underlined the need for providing highly nutritious food for the consumers in view of changing food habits of the society. Dr. B. R. Ulmek, Dean, Faculty of Agriculture highlighted the need for research in post harvest technology and packaging of fruits. Dr. Prakash Patil, Project Co-ordinator, Arid Zone Fruit Research Station, Bangalore and Dr. Prakash Pawar, Registrar put fourth their views on this occasion. Dr. S. A. Ranpise, Head, Department of Horticulture gave the introductory remarks. Dr. Shrikant Kulkarni anchored the programme, while, Dr. A. M. Musmade proposed the vote of thanks. The scientists from Punjab, Sikkim, Gujarat and other states participated in this training programme.

National Group Meeting of AICRP on Forage Crops organized



The National Group Meeting for Rabi 2015-16 of AICRP on Forage Crops and Utilization was organized at MPKV, Rahuri. In his presidential address Dr. I. S. Solanki, ADG (EPC), ICAR, New Delhi put forth the thrust areas and challenges of forage production in the country. He said that the forage crops are not yet exploited as cash crops. The availability of planting material is very much needed for seed replacement. For this purpose a package of seed production programme is very much essential. Dr. R. S. Patil, Director of Research, MPKV, Rahuri in his remarks highlighted the importance of varieties and technologies of forage crops released by the university. He said that the constraint of forage seed production will be encountered through the demonstrations in Rashtriya Krishi Vikas Yojana (RKVY) project. Forage crops are important in integrated farming system especially for the small farmers, he said. Dr. T. G. Nageshwar Rao, Director, IIMR, Hyderabad gave a presentation on Sorghum for forage and fodder. He underlined the strategies for improvement of fodder qualities. Dr. A. K. Roy, Project Co-ordinator, IGFR, Jhansi presented the report on forage crops. The former forage scientists of the university Dr. J. S. Desale and Dr. M. R. Manjare were felicitated on this occasion for their contribution in forage research and production. Dr. R. W. Bharud, Head, Department of Botany gave the welcome address.

Dr. R. J. Desale anchored the programme. Prof. A. H. Sonane, Forage Breeder and his colleagues took efforts in organizing the programme.

State Level meeting organized



A state level meeting of Agriculture Advisory Committee was organized in the university in collaboration with Doordarshan Kendra, Mumbai. On this occasion Vice-Chancellor Dr. T.A. More focused on the participation of women in Agriculture. Hence, he advised to give emphasis on programmes related to women empowerment. Further, he hoped for good co-ordination between electronic media, State Agriculture Universities and Dept. of Agriculture for the benefit of farmers. Dr. K.D. Kokate, DEE hoped for increasing confidence among the farmers by extension personnel and mass media. Dr. Umashankar Singh, Joint Director (Mass Media) emphasized the need for interactions with the farmers in the scarcity situations. Shri. Shivaji Fulsundar, Dy. Director General also addressed the meet. Dr. G.K. Sasane proposed vote of thanks. Dr. S.S. Sadaphal anchored the programme. Officers of Doordarshan Kendra, Pune, Nagpur, AIR, SAUs and various line departments and progressive farmers were present on this occasion.

Peripatetic Training Programme on Time and Stress Management organized

A three day Peripatetic Training Programme on "Time and Stress Management for Better Performance of Extension Personnel" was organized





by the Department of Extension Education, MPKV, Rahuri in co-ordination with Extension Education Institute, Anand, Gujarat. In his inaugural address Dr. K. D. Kokate, Director, Extension Education said that we should cultivate our mind like a garden for reducing stress and development of positive thoughts. Development of joyful thoughts under stress condition are very important. For this purpose we should be clear about our mission, priorities and goals of life. He said that bringing attitudinal changes in the farmers is a challenging job for extension personnel. Thus, the person who values time and manage relationships is successful in life. Dr. M. R. Patel, Associate Educationist, EEI, Anand and Course Director in his remarks briefed about the concept and outline of the programme. Dr. S. B. Shinde, Head, Department of Extension Education and Course Co-ordinator gave the welcome address. More than fifty scientists participated in the programme. Dr. J. H. Gaikwad anchored the programme, while, Dr. P. B. Kharde proposed the vote of thanks.

Farmers trained on goat rearing



A three day training programme on Goat Rearing was organized by the All India Co-ordinated Sangamneri Project, Dept. of AHDS, MPKV, Rahuri in co-ordination with ATMA, Ahmednagar and IMS, Ahmednagar. Dr. K.D. Kokate, DEE, inaugurated the programme. In his address Dr. Kokate stressed the need for skill development amongst the goat rearers about goat rearing technology. He said that farmers needs to come forward for group marketing. Dr. Y.S. Fulpagare, HOD, ASDS gave the introductory address. Dr. Sharad Kolte, Director, IMS, Ahmednagar, Shri. Sambhaji Gaikwad, Dy. Director, ATMA, Shri Rakesh Pangat, District Manager, NABARD, Dr. M.B. Dhonde, HOD, Agronomy, Dr. S.B. Shinde, HOD, Extension Education were present on this occasion. Dr. R.J. Desale anchored the programme, Dr. S.D. Mandakmale proposed the vote of thanks. More than 30 farmers participated in this training.

Workshop of Farmers Producer Company inaugurated



A workshop of Farmers Producer Company was inaugurated by Director of Extension Education Dr. K.D. Kokate. The programme was organized by MPKV, Rahuri, ATMA, Ahmednagar, Maharashtra Competitive Agricultural Development Project, Garbhagiri Farmers Producer Company Ltd., Wambori and Sammrudhhi Pvt. Ltd. Dr. K.D. Kokate, DEE in his address said that the country has become self-sufficient in food grains and horticulture produce. These benefits should reach the farmers. Hence, for this purpose the establishment

of Farmer Producer Company is very much essential. The university will provide technical guidance to these companies whenever required. Dr. Kokate inaugurated the Market Linkage Workshop and Soil Water Testing Laboratory. Shri. Bhausaheb Barhate, Project Director, ATMA, Ahmednagar, Shri. Anilkumar Shitole, Nodal Officer, MCADP, Pune, Sarpanch Mrs. Shobhatai Dhokane, ATMA, Deputy Director Shri. Sambhaji Gaikwad, ATIC Manager, Dr. A. V. Solanke, Soil Scientist Dr. A. G. Durgude, Chairman of Farmers Producer Company, Prof. Gangadhar Chindhe were present on this occasion. Officers and farmers were present in this function. Shri. Gangadhar Chindhe anchored the programme and Shri. Sambhaji Gaikwad proposed the vote of thanks.

ZAREAC Interface Organized



The Zonal Agricultural Research and Extension Advisory Committee (ZAREAC) meeting for rabi and summer seasons was organized at the College of Agriculture, Kolhapur by Mahatma Phule Krishi Vidyapeeth, Rahuri in coordination with the State Department of Agriculture. Vice-Chancellor Dr. T. A. More in his presidential address stated that in 2015 university has released eight crop varieties, 64 improved technologies and recommendations and six improved tools and implements. Farmers need to avail the benefit of these improved varieties and technologies. For this the role of State Department of Agriculture is vital for transfer of technology, he said. Dr. Krishnarao

Deshmukh, Director, Extension and Training, M.S. in his speech said that activities like meetings with farmers, discussing their constraints and accordingly giving the climate based agro advisory messages were organized during Agriculture Awareness Week by the Department of Agriculture. Dr. K.D. Kokate, Director, Extension Education gave the introductory remarks and gave a presentation on University Extension Programmes. Dr. R.S. Patil, Director of Research in his presentation gave information of new released crop varieties, technology recommendations and improved implements. Prof. Chandrakant Kumbhar anchored the programme, Associate Director of Research Dr. Nagnath Patil gave welcome address, while, Associate Dean, College of Agril. Kolhapur Dr. G. G. Khot proposed the vote of thanks. The rabi issue of Shri Sugi periodical was released on this occasion. Shri. Tushar Pawar, Hon'ble Member, Executive Council, Dr. Narayan Sisode, Divisional Joint Director of Kolhapur, Dr. Prakash Shingare, Director of Research, MCAER, Pune, Divisional Joint Director of Pune Shri. Vijay Ingale, Divisional Joint Director of Nasik Dr. Kailas Mote, all the Divisional Directors of Agriculture, Heads of Departments, Associate Directors of Research, Programme Co-ordinators of KVKs, scientists participated in the discussions.

October - 2015

Model Training Course organized



A National level training course on “Effective Communication through Electronic Media for Upliftment of Rural People” was organized at MPKV, Rahuri in co-ordination with the Ministry of Agriculture, Govt. of India, New Delhi. In his inaugural address Dr.K.D. Kokate, Director, Extension Education highlighted the importance of electronic media for transfer of technology. He said that in recent days the farmers are well equipped with smart phones. Hence, the extension personnel need to develop good quality content for effective communication. He stressed the need for use of advanced apps and tools for accelerating the technology transfer process. Dr.B.R. Ulmek, Dean Faculty of Agriculture in his address cited the example of WhatsApp group of farmers for achieving 100 tons per acre yield of sugarcane. Dr.S.B. Shinde, Course Director & Head, Department of Extension Education in his introductory remarks narrated the importance of electronic media for upliftment of rural people. Dr.J.H. Gaikwad anchored the programme, while, the Course Co-ordinator Dr.P.B. Kharde proposed the vote of thanks. Twenty-two participants of State Department of Agriculture and KVKs participated in this training programme. The valedictory programme was organized in presence of Vice Chancellor Dr.T.A. More. Certificates were distributed at the hands of Dr. More on this occasion.

Sub-research Centre on Maize sanctioned

The ICAR, New Delhi has sanctioned a Sub-research Centre on Maize for MPKV, Rahuri in the 12th five year plan. It will work under the All India Co-ordinated Maize Improvement Project. Five posts and funds of Rs. 54.50 lakhs have been sanctioned to this centre. Vice-Chancellor Dr. T.A. More hoped for valuable and need based research on maize through this centre.

Seed distribution programme



Seed distribution programme was organized for the College Development Block by Extension Education Section of College of Agriculture, Kolhapur. Seed of improved varieties of the university viz., Wheat- Trimbak and Chickpea- Digvijay were distributed to the farmers at the hands of Dr. G. G. Khot, Associate Dean, College of Agriculture, Kolhapur. Thirty-two result demonstrations on chickpea and 28 result demonstrations on wheat are been planned to be organized at various villages in College Development Block. Dr. V.J. Tarde, Professor of Agril. Extension gave the introductory remarks. Farmers and staff of Extension section were present on this occasion.

Showcasing of university technologies through Agril. Exhibitions



MPKV, Rahuri participated in the various Agril. Exhibitions organized in the jurisdiction of the university. The university participated in KRUSHIK-2015 exhibition organized at Baramati. Another exhibition was organized at Karjat, Dist.

Ahmednagar. The Hon'ble Ministers Shri. Girish Mahajan and Shri. Ram Shinde visited the university stall on this occasion. The university stall was also installed in the Agroworld-2015 exhibition organized at Ahmednagar. Dr. A. V. Solanke, Manager, ATIC, Dr. S. D. Patil, Public Relations Officer, Dr. V. P. Kad, Asstt. Prof. of Engg., Shri. M.H. Gawde, Dr.D.P. Pacharne, Dr.Y.B. Kandalkar guided the visiting farmers and dignitaries during these exhibitions.

November - 2015

Mahatma Phule anniversary celebrated

The 125th anniversary of Mahatma Jotiba Phule was celebrated in the university. Speaking on this occasion Prof. Dilip Chavan, Professor of Swami Ramanand Thirth Marathwada University, Nanded said that many intellectuals have called Mahatma Phule as the Indian Social Revolutionary. He fought for the farmers cause during his era and wrote extensively on their concerns. In his presidential address Dr. K.D. Kokate, Director, Extension Education said that the thoughts of Mahatma Phule are ideal today for confronting the challenges in agriculture. The students need to adopt the ideals of Mahatma Phule. Dr. P.A. Turbathmath, Associate Dean, Dr.ASCAE, Dr.M.B. Dhonde, Head, Department of Agronomy, Prof. D. M. Gaikwad, Sports Officer, staff and students were present on this occasion. Mr. Padamkumar Patil anchored the programme, while, Dr. R.J. Desale proposed the vote of thanks.

Pre-rabi Seasonal Farmer Interface organized



Krishi Vigyan Kendra, Mamurabad, Dist. Jalgaon organized a Pre-rabi Seasonal Farmer Interface programme and an agril. exhibition in co-ordination with the ICAR, New Delhi and Vasundhara Watershed Project, Jalgaon. Shri. A.T. Patil, Hon'ble Member of Parliament in his inaugural address appealed to the farmers to go for allied occupations for sustainable agriculture. Farmers need to change their cropping pattern in view of climate change, he said. Dr. K.D. Kokate, Director, Extension Education said that the KVK SMS are guiding the farmers in view of contingent crop management and climate change. In view of the large area of banana in Jalgaon district appropriate processing technologies are very much needed, he said. Krishibhushan Shri. Vishvasrao Patil, Dr. P.A. Turbathmath, Associate Dean, Dr. ASCAE, Shri Anil Bhokare, Project Director, Vasundhara Watershed Project, scientists and farmers were present on this occasion. The innovative farmers were felicitated at the hands of dignitaries.

Farmers rally organized for tribal farmers



The Department of Soil Science and Agricultural Chemistry, MPKV, Rahuri had organized a farmers rally for tribal farmers in Junnar of Pune district. The Chief Guest Mrs. Surekha Munde, Member, Zilla Parishad, Pune in her address said that the farmers need to approach the agriculture university for solving their problems. Dr.A.L. Pharande, Head, Department of SS & AC in his address stressed the need for application of



fertilizers as per the soil testing. He said that the United Nations has declared 2015 as the International Year of Soil Health. Dr. A.D. Kadlag gave the introductory remarks. Soil Scientist Dr. A.G. Durgude and Dr. Birbalsing Rajput, Programme Co-ordinator, KVK, Narayangaon guided the farmers.

Kisan Sammelan-2015 organized



Krishi Vigyan Kendra, Borgaon, Dist. Satara had organized a Kisan Sammelan- 2015 at Bharatgaowadi village in Satara district in co-ordination with Rashtriya Chemical Fertilizers, Mumbai. In his address Vice-Chancellor Dr. T.A. More called for group approach in farming. He cited the advantages of group farming especially for purchasing of agricultural inputs. He said that the university is producing more than 15000 qtl. of seed every year. The farmer needs to take benefit of improved varieties of the University for increasing their production. Dr. K.D. Kokate, Director, Extension Education applauded the efforts of the farmers for taking record yield of Phule Suchitra variety of rabi Sorghum in the Shindewadi village of Satara district. He said that Kisan Sammelan is a good platform for the farmers. The progressive farmers KrishiBhushan Shri. Shankar Khot and Shri. Manohar Salunkhe narrated their experiences. In the technical session the university scientists Dr. A. M. Pisal, Dr. J. H. Kadam, Dr. D. H. Phalke and Shri. Rajendra Kadam of RCF guided the farmers. Prof. Mohan Shirke, Programme Co-ordinator, KVK, Borgaon gave the introductory remarks. Eng.

Mahesh Pacharne anchored the programme, while, Dr. M.S. Babar proposed the vote of thanks. Large number of farmers responded to this Kisan Sammelan programme.

December, 2015

Dr. K. P. Viswanatha nominated as Vice Chancellor of MPKV, Rahuri



Dr. K.P. Viswanatha has been nominated as the new Vice Chancellor of MPKV, Rahuri. He took over the reigns of Vice Chancellor on 30th December, 2015. Dr. K.P. Viswanatha was born on 5th Nov., 1955. He completed his Ph. D. in Genetics and Plant Breeding. He has a vast experience of 36 years of service in the University of Agricultural Sciences, Bengaluru and at University of Agricultural Sciences, Raichur. He worked in the capacity of Director of Research in UAS, Bengaluru and as Director of Extension Education at UAS, Raichur. He has guided 10 Ph. D. students. He has to his credit more than 40 research papers and two books. As a Principal Investigator (PI) of various projects, he has executed 12 externally funded projects and two projects as Co- PI. He is the Vice President and Joint Secretary of the Indian Society of Arid Legumes, CAZRI, Jodhpur; Counsellor of Southern Zone-Indian Society of Genetics and Plant Breeding; Member of the Editorial Board-Journal of Arid Legumes, Indian Society of Pulses Research and Development (ISPRD), IIPR, Kanpur and Journal of Krishi Vigyan, a publication of Society of Krishi Vigyan, PAU,

Ludhiana. He is coveted with the Fellowships of Indian Society of Pulses Research and Development and Indian Society of Genetics and Plant Breeding. He has developed two varieties of Rice viz., CTH-1(Mukti), CTH-3(Bilimukti); two varieties of Horsegram viz., BGM-1, PHG-9; three varieties of Cowpea viz., KBC-2, KM-5, IT-38956-1 and 49-A variety of fodder Bajra.

Dr. Viswanatha has been felicitated with an International Award-Endeavour Executive Award by Australian Government in 2010. His contribution has been recognized at the National level for which he has been bestowed with Chi. Choudhari Devilal Research Award in 2008 and the Life Time Achievement Award by Society of Extension Education and Management in Agriculture. During his tenure as DEE, the KVK, Bidar bagged the Best KVK Award of Zone-VIII from ICAR, New Delhi in 2015. He has a good international exposure and toured countries like Australia, Japan, Spain, Egypt and Africa. Thus, Vice Chancellor Dr. Viswanatha has a rich experience in education, research and extension education.

Welcome to new Vice Chancellor Dr. K. P. Viswanatha and farewell to Ex-Vice Chancellor Dr. T.A. More



The welcome programme for the new Vice Chancellor Dr. K. P. Viswanatha and farewell to Ex-Vice Chancellor Dr. T. A. More was organized in the university. Dr. K. P. Viswanatha took charge of Vice Chancellor of the university. In his address he hoped for a good co-operation from staff and students for taking

the university to greater heights. He humbly said that he will work as a sevak of the university and will try to serve in the best possible way for the MPKV family and farming community.

The Ex-Vice Chancellor Dr. T.A. More thanked the staff and students for their co-operation during the last five years. Dr. K.D. Kokate, Director of Extension Education, Dr. B.R. Ulmek, Dean F/A, Dr. R.S. Patil, Director of Research, Shri. Sopan Kasar, Registrar, staff members and students expressed their feelings on this occasion. Mrs. Rekhatai More, Colonel Onkar Murthy, Mrs. Anupama Murthy, Associate Deans, Heads of Departments, scientists, staff and students were present for the function. Dr. A.V Solanke anchored the programme, while, Dr. D.B. Yadav proposed vote of thanks.

Workshop on Sugarcane organized



A Workshop on Enhancing the Productivity of Sugarcane was organized in the university in co-ordination with the Directorate of Sugarcane Development, Government of India, Lucknow. Vice Chancellor Dr. T.A. More inaugurated the workshop. In his inaugural address Dr. More highlighted the sugarcane research and achievements of the university. He said that the Phule-265 sugarcane variety developed by CSRS, Padegaon has brought a revolutionary change in the livelihood of the farmers. Use of biotechnology research in developing the sugarcane varieties which can withstand water stress condition is very much



essential, he said.

Dr. M. C. Divekar, Director, Directorate of Sugarcane Development, Lucknow emphasized the need for intercrops in sugarcane for additional income. He said that sugarcane being a cash crop, the production of ethanol need to be promoted. Dr. R.S. Patil, DOR gave the introductory remarks. Dr. K.D. Kokate, DEE, Dr. B.R. Ulmek, Dean, F/A also addressed the trainees. Dr. A.V. Solanke anchored the programme, while, Dr. R.W. Bharud proposed the vote of thanks. Officers from Maharashtra and Karnataka states participated in the workshop.

State level Seminar on Soil Health organized



A state level seminar on Awareness of Soil Health for Sustainable Production was organized at MPKV, Rahuri by the Department of Soil Science and Agriculture Chemistry in co-ordination with Rahuri Chapter of Indian Society of Soil Science. Dr. Bisvapati Mandal, Director of Research and Ex-Pro Vice Chancellor of Bidan Chandra Agriculture University, Mohanpur, West Bengal in his inaugural address highlighted the importance of soil health for increasing the crop productivity. Dr. R.S. Patil, DOR in his address cited the research achievements of the university and said that soil test crop response equations need to be adopted by the farmers. An integrated approach is required for enhancing soil health, he said.

Dr. A.L. Pharande, Head, Department of SS & AC gave the welcome and introductory remarks. A Souvenir

was released on this occasion. Dr. B.D. Bhakre anchored the programme, while, Dr. P.P. Kadu proposed vote of thanks. Large number of Soil Scientists from the state participated in the seminar.

January-2016

Review Meeting of Extension Education Organized



The review meeting of Extension Education was organized in the university. In his address Vice-Chancellor Dr. K. P. Viswanatha said that soils have deteriorated due to imbalance use of chemical fertilizers. For this purpose soil organic carbon need to be enhanced for increasing the soil fertility. Further, he stressed the need for motivating the farmers for use of composting and organic fertilizers. Dr. K .D. Kokate, Director of Extension Education presented the various activities of extension education. He said that the extension personnel are making efforts for effective transfer of technology to the farmers. Extension Agronomists of Regional Extension Centres, Officer In-charge of District Extension Centres and Programme Co-ordinators of Krishi Vigyan Kendras attended the meeting. Dr. B. A. Deshmukh anchored the programme, while, Dr.G. K. Sasane proposed the vote of thanks.

MOU signed

A Memorandum of Understanding (MOU) was signed between Dr. Annasaheb Shinde College of Agriculture Engineering, MPKV, Rahuri with Stealth Company, Germany. Dr. K.D. Kokate, Director of Extension Education presided over the function.



Dr. Kokate expressed the need for Public Private Partnership for agriculture education, research and extension. He said that this will lead to innovative research and ultimately higher crop production. Shri Nicolas Stheel, Director, Stheel Company, Germany also addressed the faculty. The company will award Rs.7500/- scholarship per month for post graduate education and Rs.5000/- per month for undergraduate courses. Dr. P.A. Turbathmat, Associate Dean, Dr. ASCAE gave the introductory remarks. Shri Hanspeter Stheel, founder Stheel Company, Dr. B. R. Ulmek, Dean (F/A), Shri Peter Vester, Shri Parind Prabhu Desai, Shri Pravin Kulkarni, staff and students present on this occasion. Prof. V. D. Deshmukh anchored the programme, while, Dr. Ranjit Patil proposed vote of thanks.

Model Training Course organized



A Model Training Course was organized in the University in Co-ordination with Ministry of Agriculture, GoI, New Delhi. Dr. K. D. Kokate, Director of Extension Education inaugurated the

programme. He said that farmers, State Agriculture Universities and Agril. Extension Agencies need to work in co-ordination for achieving 4 per cent agricultural growth. He opined that Integrated Farming System need to adopted for sustainable agriculture. Dr. M. B. Dhonde, Head, Dept. of Agronomy also addressed the participants. The officers from agriculture department, Krishi Vigyan Kendras and extension centers participated in the programme. Dr. A. V. Solanke gave the introductory remarks, while, Dr.A. B. Kambale anchored the programme.

Seed Production Programme on 'One Village One Variety'



The seed village programme on 'One Village One Variety' was organized at Narayanwadi village in Ahmednagar district by MPKV, Rahuri in co-ordination with ICRISAT, Hyderabad, MAHABEEJ, Akola and Agriculture Department. Seed production programme of University released Phule Vasudha variety of Rabi Sorghum has been undertaken on an area of 400 ha. In his presidential address Dr. R. S. Patil, Director of Research, hoped that this will a model programme for seed production of rabi sorghum using the five point technology of the University. Dr. K.D. Kokate, Director of Extension Education said similar Seed Village Programmes are required to be organized for other major crops. Dr. S. R. Gadakh, Sorghum Breeder gave the introductory remarks. Shri. Bhausaheb Barhate, Director, ATMA, Shri. Sambhaji Gaikwad, Deputy Director, ATMA, Dr. R.W. Bharud, Head,



Dept. of Botany, Shri Chandrakant Shinde, Manager, MAHABEEJ officers and farmers were present in large number. Dr. U. D. Chavhan anchored the programme, while, Shri Sudhir Shinde proposed vote of thanks.

Republic Day Celebrated



The 66th Republic Day was enthusiastically celebrated in the University. On this occasion Vice Chancellor Dr. K.P. Viswanatha hoisted the National Flag. In his address to the staff, students and employees Vice Chancellor Dr. Viswanatha put forward the challenges of water scarcity in the state. He hope that the SAUs and agriculture department will work together for confronting these challenges. Shri Sopan Kasar, Registrar gave the oath of Clean India Campaign. Directors Dr. K.D. Kokate, Dr. B. R. Ulmek, Dr. R. S. Patil, Associate Dean Dr. P. A. Turbathmath, Shri B. G. Nirmal, Comptroller, Shri M. P. Dhoke, University Enggineer, Heads of Department, staff, students and employees attended the programme. Dr. U. K. Kadam, Security Officer anchored the programme. The NCC Cadets under the guidance of Dr. Rajendra Kenghe gave the salute. A blood donation camp was organized on this occasion.

Good Administration Day Celebrated at College of Agriculture, Pune

The Birthday of former Prime Minister of India Shri Atal Bihari Vajpayee was celebrated as a Good Administration Day at College of Agriculture, Pune. On this occasion a one day training programme was



organized. Information officer Shri. Sunil Patil was the chief Guest. In his speech he narrated various terminologies used for Good Governance, Right of Information and its effective implementation. Use of these laws for better administrator is a key for Good Government, he said. Dr. Vinay Supe anchored the programme, while, Dr. Chirme proposed vote of thanks.

Front Line Demonstrations on Onion organized



The Regional Extension Centre, Dhule organized 416 Onion Front line demonstrations on farmers field in Nandurbar district under Tribal Sub Plan project. Dr. K.D. Kokate along with the scientists from Regional Extension Center, Dhule visited the front line demonstration plots of Onion at Dhanrat, Dist. Nandurbar. On this occasion Dr. Kokate said that use of micro irrigation techniques for efficient water use is most important for scarcity area. The compost pit demonstration was also organized on this occasion. Associate Dean Dr. P.N. Rasal, REC Incharge Dr M.S. Mahajan and farmers were present in large number.

Shri D. Chandrakant visited the University



Shri D. Chandrakant, Additional Statistical Advisor, MoA, Govt. of India visited the University and discussed about the implementation of Comprehensive Scheme under Dept. of Economics, MPKV, Rahuri. On this occasion he visited the farmers under this scheme at Ahmednagar, Nashik, Thane and Aurangabad districts and interacted with them about various issues related to crop production. Dr. D.B. Yadav, Head, Dept. of Agril Economics and other scientists were present on the occasion.

February-2016

University organized Utkarsha- 2016



Utkarsha, a social and traditional competition was organized by MPKV, Rahuri, National Service Scheme (NSS) and Department of Higher Technical Education, M. S. Shri. Anil Kawade, District Collector, Ahmednagar inaugurated this competition. In his address, he said that social wealth is more worth than the economic wealth. The student should strive for attaining sincerity, social justice, conservation of our

traditions and hard work. Dr.B.R. Ulmek, Dean (F/A) in his presidential address hoped for measures like bore well recharge for overcoming the draught situation. The soil and water conservation measures need to be adopted on large scale. The NSS volunteers can certainly help the society. Dr. Atul Salunkhe, State Contact Officer, NSS in his introductory remarks put forth the objectives of this programme. Shri Sopan Kasar introduced the chief guest. Shri. Premanath Chavan anchored the programme, while, Prof. Sharad Patil proposed vote of thanks. More than 300 students, Programme Officers of seventeen Universities of Maharashtra participated in this competition.

The Prize distribution programme was presided over by Vice Chancellor Dr. K.P. Viswanatha. On this occasion he said that NSS has contributed for personality development of the students and this will ultimately lead to the development of society. The Savitribai Phule University, Pune was awarded General Championship, while, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad was the Runner up of the competition, Dr. K. D. Kokate, Director of Extension Education, Dr. B. R. Ulmek, Dean (F/A), Dr. R.S. Patil, Director of Research, Dr. P. A. Turbatmath, Asso. Dean, Dr. ASCAE were present on this occasion.

Chhatrapati Shivaji Maharaj Jayanti Celebrated



The Birth Anniversary to Chhatrapati Shivaji Maharaj was enthusiastically celebrated in the University. On this occasion Shri. Abhay Bhandari was



the chief guest. In his speech Shri. Bhandari briefed about the multidimensional personality of Chhatrapati Shivaji Maharaj. He said the history will never forget the model administration to this great king. Vice Chancellor Dr. K.P. Viswanatha in his presidential address narrated the various measures taken by King Shivaji for protecting agriculture and cattle. The ideals of Shivaji Maharaj need to be adopted by the young generation. Dr. K. D. Kokate, Director of Extension Education gave the introductory remarks and introduced the chief guest. The students of Dr. ASCAE, MPKV, Rahuri brought Shivjyoti from Shivnery Fort by travelling 130 km. Shri Akshay Ogale anchored the programme, while, Prof. S. V. Patil proposed vote of thanks.

Retrospection 2015 organized



Retrospection 2015, programme to review the various activities of the University during year 2015 was organized in the university. Vice Chancellor Dr. K.P. Viswanatha presided over the function. The chief Guest Dr. R.R. Hanchinal, Chairperson, Protection of Plant Varieties and Farmers Right Authority (PPV& PRA) in his address lauded this activity of the University and hoped that similar should be organized by other SAUs. Vice Chancellor Dr. K. P. Viswanatha stressed the need for entrepreneurship by agriculture graduates. There is need to motivate the farmers for value addition of agriculture produce. Dr. K.D. Kokate, Director of Extension Education and Research gave the introductory remarks and introduced the chief guest. He

presented the extension and research activities of past year. Dr. B.R. Ulmek, Dean, (F/A), Shri. Sopan Kasar, Registrar, Shri. B. G. Nirmal, Comptroller and Shri Milind Dhokhe, University Engineer presented the education, administration, financial and development activities, respectively. The popular University publication Krishi Darshani-2016 was released during the function. Dr. N.K. Biradar, Dean, College of Agril. Bijapur, Shri. Ravi Prakash, Registrar General, PPV & FRA and Associate Deans, staff and students were present on this occasion. A photographic exhibition was also organized on this occasion. Dr. A.V. Solanke anchored the programme while, Dr. G.K. Sasane proposed vote of thanks.

Training programme organized under RKVY



A training programme on Onion set (Chingali) production technology was organized by the University under the RKVY Farmer FIRST project. The Programme was inaugurated by Dr. K.D. Kokate, Director of Extension Education and Research. While, guiding the farmers he expressed the need for integrated cropping system for achieving sustainable yield. He hoped that large number of farmers will take this onion set production technology on their farms. The onion seed of Phule Samarth and Baswant -780 varieties were distributed to the farmers. Dr. A. V. Solanke, Principal Investigator gave the introductory remarks. Dr. P. B. Kharde, Co-Principal Investigator, anchored the Programme, while, D. P. Pacharne, Co-

Principal Investigator proposed vote of thanks. Dr. S.B. Shinde, Head, Department of Extension Education, Dr. Madhukar Bhalekar, Vegetable Breeder, Shri Gaikwad of Agril. Department and farmers were present on this occasion.

March-2016

International Women Day Celebrated



The International Women Day was celebrated in the university. Vice Chancellor Dr. K.P. Viswanatha presided over the function. In his address he underlined the importance of woman education for the progress of the society. He said that women are playing an important role in all spheres. The Chief Guest Dr. Hema Vairagar stressed the need for good health for women. Dr. B.R.Ulmek, Dean (F/A) also addressed the function. On this occasion haemoglobin testing of staff and girl students was organized. The Heads of Departments Dr. R.M. Naik, Dr. S. B. Shinde, University Medical Officer Dr. Vaishali Hile, staff and students were present on this occasion.

Action Plan Workshop of KVKs



The Action Plan Workshop of KVKs was organized in the university in co-ordination with Agriculture Technology Application Research Institute (ATARI), Zone V, Hyderabad. In his inaugural address Dr. K.D. Kokate, Director of Extension Education emphasized the need for awareness among the farmers about low cost technology in agriculture. He said that KVKs have an important role for assessment and refinement of agriculture technologies. Dr. Rajendra Reddy, Senior Scientist, ATARI, Zone V, Hyderabad in his address said that KVKs need to focus on capacity building of farmers on agricultural processing and farm mechanization. Dr. D.B. Yadav, Head, Department of Agricultural Economics also addressed the participants. Dr. B.A. Deshmukh anchored the programme, while, Dr. G.K. Sasane proposed vote of thanks. The concluding session was held under the chairmanship of Vice Chancellor Dr. K.P. Viswanatha. In his address Dr. K.P. Viswanatha hoped for a concrete and effective action plan for the KVKs. He said that the university will provide all the technology support to the KVKs. Programme Co-ordinators and SMS of 16 KVKs of University jurisdiction participated in the workshop. Action plan of KVKs was discussed and finalized under the guidance of university scientists.

International Water Day Celebrated



The International Water Day was celebrated in the University. On this occasion a Farmers Workshop was organized at Dr. A.S. College of Agril. Engg, MPKV,



Rahuri. In his presidential address Vice Chancellor Dr. K.P. Viswanatha said that we are experiencing scarcity of water due to various reasons like increased urbanization, deforestation and inefficient utilization of available water. Hence, awareness on these issues is very vital. Dr. K.D. Kokate, Director of Extension Education and Director of Research said that water saving is water earning. Dr. B.R. Ulmek, Dean, (F/A) said that for efficient use of water micro-irrigation system is most essential. Shri. Arun Deshmukh, Senior Manager, Netafem gave a presentation on advanced irrigation systems. Associate Deans, Dr. P. A. Turbatmath, Dr. G. G. Khot, scientists, farmers and students were present on this occasion. Dr. D. D. Pawar, Head, Irrigation Water Management gave the introductory address. An oath on water saving was given to all the participants. Miss Joshna Gharat anchored the programme, while, Miss Priyanka Bhagat gave vote of thanks.

Dr. Ram Kharche visited College of Agriculture, Kolhapur



Dr. Ram Kharche, Vice-President, MCAER, Pune visited the College of Agriculture, Kolhapur. Dr. G.G. Khot, Associate Dean, AC, Kolhapur welcomed him. Sugarcane juice centre was inaugurated at the hands of Dr. Kharche. Dr. Kharche guided the students of experiential learning and the faculty. Dr. Khot briefed about the achievements of the college. The staff and students were present on this occasion.

Patent of MPKV Scientist registered

A patent of university scientist Dr. D.D. Patange, Asstt. Prof., Department of ASDS, College of Agriculture, Kolhapur has been registered under the Intellectual Property Rights of Govt. of India. The patent is based on Ph.D. work of Dr. D.D. Patange. His research on low fat spread from ghee has been filed under patent number 271417. Dr. Patange has done his Ph.D. research under the guidance of Dr. D. N. Bhosale, Ex Prof., ASDS, MPKV, Rahuri, Dr. Ashok Patel, Dr. Girdhari Patil and Dr. Ram Singh of NDRI, Karnal.

Student success in All India Inter Agriculture University Sports



The All India Inter Agriculture University Sports were organized at Tamil Nadu University, Coimbatore. The MPKV students achieved good success in this competition. The boys kabbadi team were the winners. The girls team was the winners in kho-kho and runners in kabbadi. The girls badminton team were placed at third spot. In athletics Miss Manisha Navthar won silver medal in long jump. The university girls team won the general championship. These students were guided by Student Welfare Officer Prof. Sharad Patil and Physical Training Instructors Prof. Laxman Aswale, Prof. Dilip Gaikwad and Prof. Pushpashil Shelke.

6. Awards / Distinctions / Recognitions

Recognitions to Research Project



The university seed technology research scheme has been felicitated as an Excellent Center by the National Seed Project of ICAR. The scheme was felicitated during the Annual Meet held in Madhya Pradesh. The award was received at auspicious hands of Dr. S. Ayyappan, Director General, ICAR, New Delhi and Dr. Rajendra Prasad, Project Director, Seed Directorate.



The MPKV Research project have received recognitions at National level. The research project on AICRN on Potential crops under the Department of Agriculture Botany has been awarded the Best Research Project. The project was felicitated with award during the 26th Annual Meet held at Orissa Agriculture University, Bhubaneswar. This research project has contributed in developing varieties and technologies on underutilized crops.

State Level Award for NSS

The National Service Scheme (NSS) of the university has been felicitated with four State Level Awards. The NSS Excellent Award for 2013-14 was



awarded to the University. Vice Chancellor Dr. T.A. More received the award at the hands of Shri. Vinod Tawde, Hon'ble Minister, Higher and Technical Education, Maharashtra State. Prof. S. V. Patil, Students Welfare Officer of the university was awarded the Best Programme Co-ordinator of NSS. The NSS students Deep Lahamage and Annasaheb Deshmukh were felicitated with the Best NSS Volunteer awards.

Vice Chancellor Dr. T.A. More felicitated with award



Vice Chancellor Dr. T.A. More was felicitated with National Education Award-2015 by ABP News in Mumbai for his outstanding contribution to Agricultural Education. The award carries a certificate and memento.

Dr. K. D. Kokate felicitated with *Krishi Sanman* Award



Dr. K.D. Kokate, Director of Extension Education was felicitated with prestigious *Krishi Sanman* Award instituted by Media Roots and Media Wings, Pune. Dr. S. S. Magar, former Vice Chancellor, DBSKKV, Dapoli



felicitated Dr. Kokate in the programme organized at Bal Gandharv Auditorium, Pune. Dr. Kokate has contributed significantly for extension education in the country. In his capacity as DDG (Agril. Extn.), ICAR, New Delhi Dr. Kokate has planned and implemented innovative reforms in KVK system. During his tenure the Zonal Project Directorates have been upgraded to Agriculture Technology Application Research Institutes and their numbers has also increased from eight to eleven.

Dr. V.R. Shelar felicitated with the award



Dr. V.R. Shelar, Seed Research Officer of the university was felicitated with the Vasantrya Naik Agriculture Scientist award. The award is given by Vasantrya Naik Memorial Foundation, Pusad. Dr. Shelar received the award at the hands of Shri. Eknathrao Khadse, Hon'ble Minister of Agriculture and Revenue, Maharashtra State for his contribution to education, research and extension.

Dr. S. B. Shinde bags the Best Paper Presentation Award



Dr. S. B. Shinde, Head, Department of Extension Education received the Best Paper Presentation Award in the National Symposium of Indian Society of Extension Education held at Banaras Hindu University, Banaras. He was felicitated at the hands of Shri. Omprakash Singh, Minister of Tourism, U. P.

Dr. P. B. Kharde received Best Paper Presentation Award

Dr. P. B. Kharde, Associate Professor of Agril. Extension excelled in the National Seminar organized at Junagad Agriculture University, Gujarat. Dr. P.B. Kharde was felicitated with Best Paper Presentation



Award in the National Seminar organized by Society of Extension Education, Gujarat. He received the certificate and memento at the hands of Dr. A. L. Pathak, Vice Chancellor, JAU, Junagad. More than 200 extension scientists participated in this seminar.

Dr. J. H. Gaikwad received the Young Scientist Award



Dr. J.H. Gaikwad, Assistant Professor of Agril. Extension was awarded the Young Scientist Award in the National Symposium of Indian Society of Extension Education held at Banaras Hindu University, Banaras. He was felicitated at the hands of Shri. Omprakash Singh, Minister of Tourism, U.P. for his contribution in Extension.

Dr. S. D. Patil bags the Best Paper Presentation Award



Dr. S. D. Patil, Asstt. Professor of Agril. Extension excelled in the National Seminar organized at Junagad Agriculture University, Gujarat. Dr. S. D. Patil was felicitated with Best Paper Presentation Award in the National Seminar organized by Society of Extension Education, Gujarat. He received the certificate and memento at the hands of Dr. A. L. Pathak, Vice Chancellor, JAU, Junagad. More than 200 extension scientists participated in this seminar.

Dr. N.V. Kashid received the Best Poster Presentation Award

Dr. N.V. Kashid, Officer Incharge, ARS, Wadgaon Maval was awarded the Best Poster Presentation Award in



the International Rice Symposium held at the Directorate of Rice Research, Hyderabad. Dr. N.V. Kashid received this award for the poster presented in theme of Resource Management. Dr. N.V. Kashid has made significant

contribution in rice research.

Dr. A. G. Durgude elected as the Councilor



Dr. A.G. Durgude has been elected as the Councilor of Indian Society of Soil Science for the biennium 2016-17. Dr. Durgude is working as a Analytical Chemist in the Micronutrient Research Project at MPKV, Rahuri. He has

successfully shouldered the responsibility of Co- PI of three Ad-hoc research projects.

Dr. S.V. Kolse felicitated with the Fellow of Indian Society of Plant Pathology



Dr. S.V. Kolse, Plant Pathologist, Fruit Research Project, MPKV, Rahuri was felicitated with the Fellow of Indian Society of Plant Pathology in the National Symposium held at Hyderabad. He was felicitated at

the hands of Dr. T.S. Thind, Chairman, Indian Society of Plant Pathology in the annual general meeting during the National Symposium for his contribution in Plant Pathology.

Dr. Sunil Kadam conferred with “Engineering Achievement Award”

Dr. Sunil Kadam, Assistant Research Engineer and Assistant Professor of Irrigation and Drainage Engineering, Dr. ASCAE, MPKV, Rahuri was conferred with “Engineering Achievement Award” in recognition



of excellent performance and remarkable work in engineering field by the Institution of Engineers (India), Ahmednagar Local Centre during Engineers Day on 15th September, 2015.

Dr. R. J. Desale awarded with Agrocure Idol Award



Dr. R. J. Desale, Asstt. Professor of AHDS was awarded the Agrocure Idol award instituted by Agro Care Krishi Manch, Maha Agro Tech, ATMA, Dept. of Agriculture. Dr. Desale received this state level award at the hands

of Dr. Subhash Bhamare, Member of Parliament. He has been recognized for his contribution in education, research and extension.

Dr. M.K. Bedis felicitated with Krushi Ratna Award



Dr. M.K. Bedis, Chief Scientist, Pulse Improvement Project has been felicitated with “Dr. Panjabrao Deshmukh Krushi Ratna” award of Jai Kisan farmer forum. He received the award at the hands of Adv.Ujwal Nikam

in Jalgaon. Dr. Bedis received the award for his contribution in research.



7. Human Resource

7.1 Executive Officers

Executive Officer			Period
1	The Chancellor	Hon'ble Shri C. Vidyasagar Rao	30 August 2014 to till date
2	The Pro-Chancellor	Hon'ble Shri Eknathrao Khadse	31 Oct. 2014 to till date
3	The Vice-Chancellor	Dr. T. A. More	1 April 2014 to 30 Dec. 2015
		Dr. K. P. Viswanatha	31 Dec. 2015 to till date

7.2 Executive Council Member list (1 April, 2015 to 31 March, 2016)

Sr. No.	Category	Hon. Member	Address	Period
1	Chairman	Hon. Vice-Chancellor	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
2	Ex-officio Member	Hon. Director of Agriculture	Commissionerate of Agril., Central Building, Pune-411001.	--
3	Ex-officio Member	Hon. Regional Joint Director of Animal Husbandry	Veternary Dispensary, Near Ashok Stambha, Nasik.	--
4	Ex-officio Member	Hon. Director of Horticulture	Near Superintendant of Agril officer of Maharashtra State office, Narvir Tanaji Road, Shivajinagar, Pune-5	--
5	Ex-officio Member	Hon. Chief Conservator of Forest (Regional)	Old Mumbai-Agra Highway, Tryambak Naka, Opp. To Adivasi Vikas Bhavan, Nasik-422002.	--
6	Ex-officio Member	Hon. Director of Extension Education	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
7	Ex-officio Member	Hon. Dean(Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
8	Member (Agriculture Scientist)	Hon. Dr.S.B.Dandin	H.No.449, Nisarga, Ramtirthanagar, Belgaum-590016	22 May, 2013 to 21 May, 2016
9	Member (Progressive Farmers 05)	Hon. Shri.Prakash Shamrao Patil	Chairman, Congress (I), Tal-Malshiras, Akluj, Dist-Solapur	22 Aug.2014 to 21 Aug.2017
10		Hon. Shri. Tushar Balasaheb Pawar	At. Po. Belwade Haveli, Tal-Karad, Dist-Satara.	31 Aug 2014 ea 30 Aug 2017
11		Hon. Shri. Bhausaheb Wakchaure	Sai Arpan Banglow, Near Sai Shraddha Housing Society, Opp. To Saibaba Bhakt Nivas, At.Po. Shirdi, Tal-Rahata, Dist-Ahmednagar	04 Sep 2014 to 3 Sep 2017
12		Vacant Post	Vacant Post	Vacant Post
13		Vacant Post	Vacant Post	Vacant Post



14	Member (ICAR Nominee) (One)	Hon.Dr. S. D. Sawant	Director, National Research Station on Grapes, Solapur Raod, Pune.	01 Jan. 2014 to 31 Dec. 2016
15	Agro Industrialist (One)	Hon.Adv.Shri. Krishnaji Dashrath Yadav	At.Po.Indapur, Dist-Pune	04 Sep 2014 to 3 Sep 2017
16	Member (Member Maharashtra Legislative Assembly-03)	Hon.Shri. Shivajirao Kardile	At.Po. Burhanagar, Tal. & Dist-Ahmednagar	21 Dec 2015 till to Member of Legislative Assembly
17		Hon.Shri. Bhausahab Malhari Kamble	Gondhawani, Ward No.01, Shrirampur, Dist- Ahmednagar	21 Dec 2015 till to Member of Legislative Assembly
18		Hon. Shri. Rahul Jagtap	At.Po.Pimpalgaon Pisa, Tal-Shrigonda, Dist-Ahmednagar	21 Dec 2015 till to Member of Legislative Assembly
19	Member (Member Maharashtra Legislative Council-02)	Hon. Shri. Sudhir Bhaksar Tambe	Galli No.01, Indirangar, Tal-Sangamner	14 Dec, 2010 to 5 Dec 2016
20		Hon. Shri. Prakash Gajbhiye	Sai Prabhu Apartment, Ravi Nagar Chawk, Nagpur-440010.	05 Oct, 2015 to 06 June, 2020.
21	Member (Chairman of Agril. Committee of ZP) (Two)	Vacant Post	Vacant Post	Vacant Post
22		Vacant Post	Vacant Post	Vacant Post
23	Member Secretary	Hon. Registrar	Mahatma Phule Krishi Vidyapeeth, Rahuri	--
24	Ex-officio Member	Hon. Regional Dairy Development Officer, Nasik	Nasik Division, Campus of Govt. Dairy Scheme, Tryambak Raod, Nasik-422002	--
25	Ex-officio Member	Hon. Regional Dy. Director of Fisheries, Nasik	Old Govt. Ashwin Barrel No.13, Near Divisional Commisssior Office, Nasik Road-1, Nasik	--
26	Invitee	Hon. Comptroller	Mahatma Phule Krishi Vidyapeeth, Rahuri	--

7.3 Academic Council Members (1 April 2015 to 31 March, 2016)

Sr. No.	Category	Hon. Members	Address	period
1	Chairman	Hon. Vice Chancellor	Mahatma Phule Krishi Vidyapeeth, Rahuri	
2	Member	Hon. Director of Extension Education	Mahatma Phule Krishi Vidyapeeth, Rahuri	
3	Member	Hon. Director of Instruction	Mahatma Phule Krishi Vidyapeeth, Rahuri	
4	Member	Hon. Director of Research	Mahatma Phule Krishi Vidyapeeth, Rahuri	
5	Member	Hon. Dean (Agril.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	
6	Member	Hon. Dean (Agril. Engg.)	Mahatma Phule Krishi Vidyapeeth, Rahuri	
7	Member	Associate Dean (PGI)	Mahatma Phule Krishi Vidyapeeth, Rahuri	



8	Member	Associate Dean , Dr. ASCAE	Mahatma Phule Krishi Vidyapeeth, Rahuri	
9	Member	Associate Dean (LAE)	Mahatma Phule Krishi Vidyapeeth, Rahuri	
10	Member	Associate Dean/ Principal	College of Agriculture, Pune	
11	Member	Associate Dean/ Principal	College of Agriculture, Kolhapur	
12	Member	Associate Dean/ Principal	College of Agriculture, Dhule	
13	Member	Associate Dean/ Principal	College of Agriculture, Nandurbar	
14	Member	Associate Dean/ Principal	College of Agriculture, Karad	
15	Member	Associate Dean/ Principal	College of Agriculture, Muktainagar	
16	Member	Head, Department of Agronomy	Mahatma Phule Krishi Vidyapeeth, Rahuri	
17	Member	Head, Department of Animal Science and Dairy Science	Mahatma Phule Krishi Vidyapeeth, Rahuri	
18	Member	Head, Department of Agril. Botany	Mahatma Phule Krishi Vidyapeeth, Rahuri	
19	Member	Head, Department of Soil Sci. & Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
20	Member	Head, Department of Agril. Economics	Mahatma Phule Krishi Vidyapeeth, Rahuri	
21	Member	Head, Department of Agril. Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
22	Member	Head, Department of Agril. Entomology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
23	Member	Head, Department of Agril Extension	Mahatma Phule Krishi Vidyapeeth, Rahuri	
24	Member	Head, Department of Horticulture	Mahatma Phule Krishi Vidyapeeth, Rahuri	
25	Member	Head, Department of Plant Pathology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
26	Member	Head, Department of Food Science & Technology	Mahatma Phule Krishi Vidyapeeth, Rahuri	
27	Member	Head, Department of Bio-Chemistry	Mahatma Phule Krishi Vidyapeeth, Rahuri	
28	Member	Head, IFD-Irrigation Water Management	Mahatma Phule Krishi Vidyapeeth, Rahuri	
29	Member	Head, Department Agril. Meterology	College of Agriculture, Pune	
30	Member	Head, Department of Farm Machinery & Power, Mech.Engg., Physics,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
31	Member	Head, Department of Irri.& Drainage Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
32	Member	Head, Department of Soil & Water Conservation Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
33	Member	Head, Department of Agril. Process Engg.,	Mahatma Phule Krishi Vidyapeeth, Rahuri	
34	Member	Head, Department of Farm Sturcture, Rural Elect., Civil & Elect. Engg.	Mahatma Phule Krishi Vidyapeeth, Rahuri	
35	Member	Soils Specialist	Agril. Research Station, Solapur	
36	Member	Sugarcane Specialist	Central Sugarcane Research Station, Padegaon	
37	Member	Oilseeds Specialist	Oilseeds Research Station, Jalgaon	
38	Member	Wheat Specialist	Wheat Research Station, Niphad	
39	Member	Dr.A.A.Atre	Asso. Prof. Soil & Water Conservation Engg., Dr.ASCAE, MPKV, Rahuri	01 Nov.2013 to 31 Oct. 2016
40	Member	Student Welfare Officer	Mahatma Phule Krishi Vidyapeeth, Rahuri	



41	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)				
42	Invitee	Associate Director of Research	NARP, Shenda Park, Kolhapur	
43	Invitee	Associate Director of Research	NARP, Ganeshkhind Pune-7	
44	Invitee	Associate Director of Research	NARP, Igatpuri	
45	Invitee	Associate Director of Research	NARP, Solapur	
46	Invitee	Principal	College of Horticulture, Pune	
47	Invitee	Associate Director of Research	Directorate of Research, MPKV, Rahuri	(As per decision of AC (98) held on 14/02/13,)
Invitee (As per decision of AC (99) held on 15/11/2013 ,)				
48	Co-opt Member	Dr. P.U.Krishnaraj	Professor & Head, Department of Biotechnology, Institute of Agril. Biotechnology, University of Agril. Sciences, Dharwad-580005	21st May, 2014 to 20th May, 2016
49	Co-opt Member	Er. Rajeeb Kumar	No.13, Victorian Meadows, Behind Bageecha Restaurant Airport, Varthur Road, Bangalore-560 037	21st May, 2014 to 20th May, 2016
50	Co-opt Member	Dr. V.M. Mayande	B-504, Mont Vert, Biarritz-2, Baner-Pashan Link Road, Pune-411 021.	21st May, 2014 to 20th May, 2016
51	Co-opt Member	Dr. R.K. Pal	Director, NRC, Pomegranate, NH-9, Solapur-Pune Highway, Kegaon (PO), Solapur District, Maharashtra, India-413 255.	21st May, 2014 to 20th May, 2016
Principal (Affiliated Colleges) (MAU Act 1983, Section 33(2)(viii) read with Statute 4(viii))				
52	Member	The Principal	College of Agril. Business Management, Narayangaon, Dist-Pune	
53	Member	The Principal	College of Agriculture, Akluj, Dist-Solapur	
54	Member	The Principal	College of Agril. Biotechnology, Vidyanagari, Bhigwan Road, Baramati, Dist-Pune	
55	Member	The Principal	College of Agriculture, Ambi, Tal-Wadgaon Maval, Dist-Pune.	

7.4 Academic Officers

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Dean, Faculty of Agril. and Director of Instruction	Dr. B.R. Ulmek Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
2.	Director of Research	Dr. K.D. Kokate Holding additional charge	37400-67000 +10000 AGP	15.2.2016	31.03.2016
3.	Director of Extension Education	Dr. K.D. Kokate	37400-67000 +10000 AGP	1.4.2015	31.03.2016
4.	Associate Dean (PGI)	Dr. B.R. Ulmek	37400-67000 +10000 AGP	1.4.2015	31.03.2016
5.	Associate Dean, Agril. Engineering	Dr. P.A. Turbatmath Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016



6.	Associate Dean (LAE)	Dr.S.G.Borkar Holding additional charge	37400-67000 +10000 AGP	01.04.2015	31.03.2016
7.	Associate Dean, College of Agril. Dhule	Dr.P.N.Rasal Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
8.	Associate Dean, College of Agril.Pune	Dr.J.V.Patil Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
9.	Associate Dean, College of Agril.Kolhapur	Dr.G.G.Khot Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016

7.5 Academic Staff- Heads of Departments

Sr. No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Head, Department of Agronomy	Dr.M.B.Dhonde Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
2.	Head, Department of Soil Science & Agril.Chemistry	Dr.A.L.Pharande	37400-67000 +10000 AGP	1.4.2015	31.03.2016
3.	Head, Department of Agril. Botany	Dr.R.W.Bharud Holding additional charge	37400-67000 +10000 AGP	1.4.2015	16.02.2016
		Dr.S.R.Gadakh Holding additional charge	37400-67000 +10000 AGP	17.2.2016	31.03.2016
4.	Head, Department of Entomology	Dr.S.S.Jadhav Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
5.	Head, Department of Pathology	Dr.S.G.Borkar	37400-67000 +12000 AGP	1.4.2015	31.03.2016
6.	Head, Department of Horticulture	Dr.S.A.Ranpise Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
7.	Head, Department of Animal Science & Dairy Science	Dr.Y.G.Fulpagare Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
8.	Head, Department of Food Science & Technology	Dr.S.S.Thorat Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
9.	Head, Department of Agril. Engineering	Shri.P.A.Turbutmut	37400-67000 +10000 AGP	1.4.2015	31.03.2016
10.	Head, Department of Agril. Meteorology	Dr.D.W.Thawal Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
11.	Head, Department of Extension Education	Dr.S.B.Shinde Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016
12.	Head, Department of Agril. Economics	Dr.D.B.Yadav	37400-67000 +10000 AGP	1.4.2015	31.03.2016
13.	Sugarcane Specialist, Padegaon	Dr.S.M.Pawar Holding additional charge	37400-67000 +10000 AGP	1.4.2015	31.03.2016



7.6 Other Officers

Sr.No.	Designation of post	Name of Officer	Pay Scale (Rs.)	Period	
				From	To
1.	Registrar	Shri. S. R. Wankhede	37400-67000 + 8700 AGP	1.4.2015	26.06.2015
		Dr. D. D. Pawar		27.06.2015	06.09.2015
		Holding additional charge			
		Shri. P. B. Pawar Shri. S. R. Kasar		07.09.2015 23.12.2015	22.12.2015 31.03.2016
2.	Comptroller	Shri. B. G. Nirmal	15600-39100 + 6600 AGP	15.6.2015	31.03.2016
3.	Students Welfare Officer	Shri. S. V. Patil, Holding additional charge	15600-39100 + 6600 AGP	1.4.2015	31.03.2016
4.	University Librarian	Shri. P. A. Shinde	37400-6700 + 10000 AGP	1.4.2015	31.03.2016
5.	University Engineer	Shri. M. P. Dhokhe	15600-39100 + 6600 GP	1.04.2015	31.03.2016

7.7 University Manpower

Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant posts	Remarks
1	2	3	4	5	6	7
Group-A						
1	Vice-Chancellor	Fix Pay Rs.75,000/-	1	1	0	
2	Director of Instructions And Dean, Faculty of Agriculture,	37400-67000 + GP 10000 + SPL.4000	1	0	1	
3	Director of Research	37400-67000 + GP 10000 + SPL.4000	1	0	1	
4	Director of Extension Education	37400-67000 + GP 10000 + SPL.4000	1	1	0	
5	Associate Dean	37400-67000 + GP 10000 + SPL.3000	8	1	7	
6	Head of Department	37400-67000 + GP 10000	12	4	8	
7	Professor	37400-67000 + GP 10000	96	30	66	
8	Associate Professor	37400-67000 + GP 9000	227	153	74	
9	Assistant Professor	15600-39100 + GP 6000	422	276	146	
10	Sports Officer	15600-39100 + GP 6000	1	1	0	
11	Physical Training Instructor	15600-39100 + GP 6000	6	5	1	
12	College Librarian	15600-39100 + GP 6000	5	3	2	
13	Registrar	37400-67000 + GP 8700	1	0	1	
14	Comptroller	15600-39100 + GP 6600	1	1	0	
15	Students Welfare Officer	15600-39100 + GP 6600	1	0	1	
16	University Librarian	37400-67000 + GP 10000	1	1	0	
17	University Engineer	15600 - 39100 + GP 7600	1	1	0	
18	Deputy Registrar	15600 - 39100 + GP 6600	2	2	0	
19	Asstt. Registrar/ Asstt. Comptroller	9300-34800 + GP 4600	20	16	4	
20	Deputy Uni. Engineer	15600-39100 + GP 6900	1	0	1	



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant posts	Remarks
1	2	3	4	5	6	7
21	Asstt. Civil Engineer	15600-39100 + GP 5400	1	1	0	
22	P.A. to Vice- Chancellor	9300-34800 + GP 4600	1	0	1	
23	Medical Officer	9300-34800 + GP 5400	2	1	1	
24	Security Officer	9300-34800 + GP 5400	1	0	1	
25	Pay and Accounts Officer	9300-34800 + GP 4600	3	3	0	
			817	501	316	
Group-B						
26	Sr.Res.Asstt.	9300-34800 +GP 4600 (M.Sc. & II Class & 5 year service) 9300-34800 +GP 4400	145	133	12	
27	Veterinary Officer	9300-34800 +GP 4400 (For Graduate) 9300-34800 +GP 4300 (For others)	3	1	2	
28	Superintendent	9300-34800 +GP 4400	36	29	7	
29	Asstt. Supdt.	9300-34800 +GP 4300	55	36	19	
30	Stenographer(H.G.)	9300-34800 +GP 4400	10	5	5	
31	Stenographer(L.G)	9300-34800 +GP 4300	19	9	10	
33	Junior Engineer	9300-34800 +GP 4400 (for Graduate) 5200-20200 +GP 2900 (for Diploma)	16	14	2	
34	Chief Artist	9300-34800 +GP 4300	1	1	0	
35	Sr. Tech. Asstt.	9300-34800 +GP 4300	2	1	1	
36	Movie Cameraman	9300-34800 +GP 4300	1	0	1	
			288	229	59	
Group C						
37	Jr. Res. Asstt.	9300-34800 +GP 4200	184	135	49	
38	Jr. Vet. Officer	9300-34800 +GP 4400 (For Graduate) 5200-20200 +GP 2800 (For others)	2	1	1	
39	Agril. Asstt.	5200-20200 +GP 2800 (After 7 years service) 5200-20200 +GP 2400	611	523	88	
40	Technical Asstt.(Lib)	5200-20200 +GP 2800	1	0	1	
41	Livestock Supervisor	5200-20200 +GP 2400	8	7	1	
42	Sr. Clerk	5200-20200 +GP 2400	154	123	31	
43	Clerk-Cum-Typist	5200-20200 +GP 1900	239	143	96	
44	Steno Typist	5200-20200 +GP 2400	15	3	12	
45	Chief-Cataloguer	5200-20200 +GP 2800	7	1	6	
46	Issue Asstt.	5200-20200 +GP 2000	9	5	4	
47	Draughtsman	5200-20200 +GP 2800 5200-20200 +GP 4200 (After 4 year service)	8	6	2	
48	Tracer	5200-20200 +GP 2000 5200-20200 +GP 2400 (After 7 year service)	7	4	3	



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant posts	Remarks
1	2	3	4	5	6	7
49	Sr. Mechanic	5200-20200 +GP 2400	4	3	1	
50	Mechanic-Cum Electrician	5200-20200 +GP 2400	1	1	0	
51	Jr. Mechanic	5200-20200 +GP 1900	3	2	1	
52	Technical Asstt.	5200-20200 +GP 2800	4	4	0	
53	Mechanical Supervisor	5200-20200 +GP 2800	1	1	0	
54	Foremen Supervisor	5200-20200 +GP 2800	2	1	1	
55	Farm Mechanic	5200-20200 +GP 2400	4	1	3	
56	Fitter-Cum-Mechanic	5200-20200 +GP 2400	1	0	1	
57	Fitter	5200-20200 +GP 2400	6	5	1	
58	Machinist	5200-20200 +GP 2400	1	1	0	
59	Turner	5200-20200 +GP 2400	3	2	1	
60	Foundryman	5200-20200 +GP 2400	3	1	2	
61	Audio Visual Operator	5200-20200 +GP 2400	4	2	2	
62	Carpenter	5200-20200 +GP 2400 (For ITI) 5200-20200 +GP 2000 (For others)	12	11	1	
63	Welder	5200-20200 +GP 2400	3	2	1	
64	Wireman	5200-20200 +GP 2400 (For ITI) 5200-20200 +GP 1900 (For others)	24	15	9	
65	Compounder (Medical)	5200-20200 +GP 2800	2	2	0	
66	Nurse	9300-34800 +GP 4200	1	1	0	
67	Photographer	5200-20200 +GP 2800	2	2	0	
68	Artist-Cum- Photographer	5200-20200 +GP 2800	4	3	1	
69	Dark Room Asstt.	5200-20200 +GP 2400	2	2	0	
70	Asstt. Security Officer	5200-20200 +GP 2800	1	1	0	
71	Plumber	5200-20200 +GP 1900	6	3	3	
72	Mistry	5200-20200 +GP 1900	12	7	5	
73	Surveyer	5200-20200 +GP 2400	1	1	0	
74	Pump Operator	5200-20200 +GP 1900	3	2	1	
75	Compositor	5200-20200 +GP 2000	2	2	0	
76	Printer	5200-20200 +GP 2000	1	1	0	
77	Sr.Artist	5200-20200 +GP 2800	1	1	0	
78	Blacksmith	5200-20200 +GP 2400 (For ITI) 5200-20200 +GP 2000 (For others)	6	2	4	
79	Telephone Operator	5200-20200 +GP 2400	2	1	1	
80	Electrician	5200-20200 +GP 2400	3	1	2	
81	Computer Operator	9300-34800 +GP 4200	3	0	3	
82	Jeep Driver	5200-20200 +GP 1900	74	45	29	
83	Tractor Driver	5200-20200 +GP 2000	16	8	8	
84	Compounder(Vet.)	5200-20200 +GP 2400	4	3	1	
			1467	1091	376	



Sr. No.	Cadre	Pay Scale (Revised)	Sanctioned Posts	Posts filled in	Vacant posts	Remarks
1	2	3	4	5	6	7
Group-D						
1	Mali	5200-20200 +GP 1800 (For Mali Training Certificate Pass) 4440-7440 +GP 1300 (For others)	58	29	29	
2	Counter	4440-7440 +GP 1600	54	32	22	
3	Khansama	4440-7440 +GP 1600	5	1	4	
4	Khalashi	4440-7440 +GP 1600	2	0	2	
5	Lab Attendent	5200-20200 +GP-1900 (For SSC Pass) 4440-7440 +GP 1300 (For others)	46	36	10	
6	Lab-boy/keeper	4440-7440 +GP 1300	75	54	21	
7	Attendant	4440-7440 +GP 1300	14	3	11	
8	Paricharak	4440-7440 +GP 1300	1	1	0	
9	G.House Attendant	4440-7440 +GP 1300	2	0	2	
10	Lib Attendent	5200-20200 +GP-1900 (SSC with Lib. Certificate) 4440-7440 +GP 1600 (For others)	8	3	5	
11	Helper	4440-7440 +GP 1300	12	11	1	
12	Wireman Helper	4440-7440 +GP 1300	8	4	4	
13	Cleaner	4440-7440 +GP 1300	3	2	1	
14	Beldar	4440-7440 +GP 1300	2	1	1	
15	Messenger	4440-7440 +GP 1300	3	2	1	
16	Security Gard	4440-7440 +GP 1300	15	10	5	
17	Sweeper	4440-7440 +GP 1300	23	22	1	
18	Peon	4440-7440 + GP 1300	273	192	81	
19	Bullock Man	4440-7440 GP 1300	86	63	23	
20	Ploughman	4440-7440 +GP 1300	27	21	6	
21	Watchman	4440-7440 +GP 1300	156	105	51	
22	Animal Attendant	4440-7440 +GP 1300	15	10	5	
23	Milkman	4440-7440 +GP 1300	13	6	7	
24	Hamal	4440-7440 +GP 1300	2	2	0	
25	Dresser	4440-7440 +GP 1300	4	0	4	
26	Plant Collector	4440-7440 +GP 1300	5	2	3	
27	Vet Attendent	4440-7440 +GP 1300	3	2	1	
28	Store. Asstt	4440-7440 +GP 1300	1	1	0	
29	Musiam Boy	4440-7440 +GP 1300	1	1	0	
30	Field Maz.	4440-7440 +GP 1300	1	0	1	
31	Field Servant	4440-7440 +GP 1300	2	2	0	
32	Deliveryman	4440-7440 +GP 1300	6	1	5	
33	Dairyman	4440-7440 +GP 1300	2	1	1	
34	Gawali	4440-7440 +GP 1300	3	3	0	
35	Herdsmen	4440-7440 +GP 1300	3	2	1	



36	Poultryman	4440-7440 +GP 1300	4	2	2	
37	Dispensary Attendant	4440-7440 +GP 1300	1	1	0	
38	Naik	4440-7440 +GP 1600	4	2	2	
39	Massion	4440-7440 +GP 1600	4	1	3	
40	Calf man	4440-7440 +GP 1300	3	2	1	
41	Binder	4440-7440 +GP 1600	1	0	1	
42	Ward Servant	4440-7440 +GP 1300	1	1	0	
43	Workshop Mazdoor	4440-7440 +GP 1300	4	3	1	
44	Mazdoor	4440-7440 +GP 1300	1342	763	579	
			2298	1400	898	



8. Campus Development Activities

Sr. No.	Name of work	Estimated cost (Rs.)	Fund head
1	Renovation of residential quarter No. B-12 for Girls hostel at A. C. Kolhapur.	255406.00	ICAR - SAU
2	Renovation of residential quarter No. B-9 for Girls hostel at A. C. Kolhapur.	255406.00	ICAR - SAU
3	Renovation of residential quarter No. B-11 for Girls hostel at A. C. Kolhapur.	255406.00	ICAR - SAU
4	Renovation the cabin of Hon. Dean by flooring and colouring of ADPG building at C. C. Rahuri.	76391.00	ICAR - SAU
5	Repairs and renovation of Analytical laboratory of Dairy section at A. C. Kolhapur.	293846.00	ICAR - Experiential Learning
6	Renovation of processing laboratory of dairy section at A. C. Kolhapur	99522.00	ICAR - Experiential Learning
7	Water proofing to the Boys hostel at A. C. Kolhapur.	888600.00	M & R
8	Providing and fixing grills from inside in parking floor of Centenary building at A. C. Pune.	285592.00	M & R
9	Renovation of floors and kitchen otta of the staff quarters No. C4 to C9 in farm chal at A. C. Pune.	285160.00	M & R
10	Renovation of floor pipe line and other minor works to staff quarter behind Rector bungalow at A. C. Pune.	282335.00	M & R
11	Closing of verandah with roofing welded mesh, grill door and other minor works in E hostel mess at A. C. Pune.	285560.00	M & R
12	Providing and erecting chain link fencing on right side of Dhule - Parola road at A. C. Dhule.	299530.00	M & R
13	Construction of vehicle shed at RFRS Ganeshkhind Pune.	950215.00	M & R
14	Construction of Implement shed at RFRS Ganeshkhind Pune.	715060.00	M & R
15	Renovation of farm road with WBM and Carpet towards office at RFRS, Ganeshkhind, Pune.	685165.00	M & R
16	Providing Ladies toilet to Engineering Deptt., Botany and Chemistry section at A. C. Dhule.	299201.00	M & R
17	Repairs to Qtr. No. G-74, G-86, G-89, G-99, G-102, G-104, G-117, G-120, G-128 and G-132 (Sharad Colony) at C. C. Rahuri.	295429.00	M & R
18	Providing electrification to the Girls hostel (First floor) at ATS, Puntamba.	272485.00	M & R
19	Construction of Training hall and museum building for farm machinery and testing centre at C. C. Rahuri.	6825000.00	RKVY
20	Construction of first floor for Bio - Control laboratories at C. C. Rahuri.	2700000.00	RKVY
21	Providing electrification to the first floor for Bio - Control laboratories at C. C. Rahuri.	270000.00	RKVY



22	Construction of office building for Horticulture Deptt. at C. C. Rahuri.	2950000.00	Revolving fund - Horticulture
23	Construction of office building for Indo - Israel work plan at C. C. Rahuri.	7500000.00	Indo - Israel
24	Providing Internal and external electrification to the rat proof godown for STCRC farm (Department soil science and Agril. Chemistry) at C. C. Rahuri.	69600.00	University Receipt
25	Providing and applying luster paint partition with doors and other minor works to Mithila bungalow at A. C. Pune.	285325.00	University Receipt
26	Renovation of toilet block of Suit No. 1 and 2 and back side toilet near to kitchen to Mithila bungalow at A. C. Pune.	285242.00	University Receipt
27	Providing and fixing false ceiling of 15mm thick acoustic tubular Armstrong and other allied works to Mithila bungalow at A. C. Pune.	285003.00	University Receipt
28	Providing oil bound distempering to internal wall surface for rooms of Vasant student hostel at C. C. Rahuri.	299875.00	Student Council A. D. PGI
29	Providing oil bound distempering to internal wall surface for rooms of Hemant student hostel at C. C. Rahuri.	299875.00	Student Council A. D. PGI
30	Providing oil painting to doors grill work and cupboards for rooms of Vasant and Shishir student hostel at C. C. Rahuri.	299545.00	Student Council A. D. PGI
31	Providing oil painting to doors grill work and cupboards for rooms of Hemant student hostel at C. C. Rahuri.	149772.00	Student Council A. D. PGI
32	Providing oil bound distempering to internal wall surface for rooms of Shishir student hostel at C. C. Rahuri.	299875.00	Student Council A. D. PGI
33	Repairs and renovation to the office of Chiku/Guva in Horticulture Nursery at C. C. Rahuri.	282500.00	Revolving fund - Horticulture
34	Repairs and renovation of the breeder seed office, Onion breeder at Horticulture farm at C. C. Rahuri.	284950.00	Revolving fund - Horticulture
35	Providing and fixing barbed wire fencing for Nursery of Horticulture Department at A. C. Dhule.	285463.00	Revolving fund - A. C. Dhule.
36	Providing coloring and painting to internal wall surface for rooms and passages of International students hostel at C. C. Rahuri.	298671.00	Institutional Charges (PGI)
37	Construction of store shed for Horticulture Nursery at A. C. Dhule.	885475.00	Revolving fund Horticulture - A. C. Dhule.
38	Construction of Gate and Arch (Kaman) at Citrus Research Station, Ainatpur, Shirampur, Dist - Ahmednagar.	210059.00	Revolving fund AICRP on Fruits MPKV, Rahuri.
39	Deselting and deepening of existing jac well of Panzara Lift at A. C. Dhule.	154000.00	SAU - A. C. Dhule.
40	Repairs and renovation of ladies and gents toilet block of Engineering section at A. C. Kolhapur.	299028.00	SAU - A. C. Kolhapur.
41	Providing aluminum sliding windows and fixed glass ventilator to the Gymnasium hall at A. C. Kolhapur.	290307.00	SAU - A. C. Kolhapur.
42	Repairs and renovation of ladies and gents toilet block of horticulture section at A. C. Kolhapur.	299028.00	SAU - A. C. Kolhapur.



43	Providing chain link fencing to the meteorological observatory at A. C. Kolhapur.	296307.00	SAU - A. C. Kolhapur.
44	Renovation of toilet block for Gymnasium at A. C. Kolhapur.	298966.00	SAU - A. C. Kolhapur.
45	Renovation of toilet block in the Horticulture farm at A. C. Kolhapur.	298966.00	SAU - A. C. Kolhapur.
46	Providing internal and external coloring and flooring in the passage of the Gymnasium hall of A. C. Kolhapur.	290925.00	SAU - A. C. Kolhapur.
47	Providing flooring to the Multi - Gym and table tennis hall at A. C. Kolhapur.	290331.00	SAU - A. C. Kolhapur.
48	Renovation of Basket ball court of A. C. Kolhapur.	298952.00	SAU - A. C. Kolhapur.
49	Providing collapsible gate grill work and S. S. railing for hostels and Administrative building at A. C. Nandurbar.	283489.00	State Plan
50	Water proofing painting and other works to CAFT laboratory of Horticulture Department at C. C. Rahuri.	234845.00	Revolving fund Horticulture
51	Construction of store room for vegetable project at C. C. Rahuri.	297838.00	Revolving fund Horticulture
52	Construction of farm shed in tekadi farm of horticulture department at C. C. Rahuri.	475084.00	Revolving fund Horticulture
53	Replacement of A. C. sheet with powder coated G. I. sheet roofing and repairing with plaster for old shed No. 1 and 2 at A. C. Dhule.	242665.00	Revolving fund Horticulture A. C. Dhule.
54	Repairs and renovation to the office No. 1 at Vegetable Onion storage scheme at C. C. Rahuri.	284280.00	Revolving fund Horticulture
55	Repairs and renovation to the office No. 2 at Vegetable Onion storage scheme at C. C. Rahuri.	283630.00	Revolving fund Horticulture
56	Providing chain link fencing to the project entitled Irrigation water requirement advisory services under RKVY for North East side sugarcane field at C. C. Rahuri.	299725.00	RKVY
57	Providing chain link fencing to the project entitled Irrigation water requirement advisory services under RKVY for South side sugarcane field at C. C. Rahuri.	184206.00	RKVY
58	Providing chain link fencing to the project entitled Irrigation water requirement advisory services under RKVY for North West side sugarcane field at C. C. Rahuri.	292965.00	RKVY
59	Providing chain link fencing to the project entitled Irrigation water requirement advisory services under RKVY for Wheat field new Shetkari Niwas at C. C. Rahuri.	298597.00	RKVY
60	Providing chain link fencing to Gymkhana ground at C. C. Rahuri.	1023329.00	Student welfare
61	Providing roofing and other allied works to the verandah of Citrus office at C. C. Rahuri.	295545.00	Revolving fund Horticulture
62	Providing MS grill and flooring to the verandah of Citrus office at C. C. Rahuri	104910.00	Revolving fund Horticulture
63	Providing chain link fencing for International Student Hostel at C. C. Rahuri.	402049.00	Institutional charges
64	Construction of Implement shed for Cotton breeder at C. C. Rahuri.	443700.00	Product Testing



9. University Budget

The Financial Status of University

The University receives grant in aid mainly from State Govt. of Maharashtra, Indian Council of Agril. Research, New Delhi and Govt. of India. This University received Rs. 3514295 Thousand during the year 2015-16 from State Govt. of Maharashtra, Indian Council of Agril. Research, New Delhi and Govt. of India. The University generated revenue receipt of Rs. 220722 Thousand during the financial year 2015-16. Out of above total grants University incurred the expenditure of Rs. 3523454 Thousand. The details of grants received, revenue receipts generated and expenditure incurred by the University are given below.

Sr. No	Head of Account	Released Grants for F.Y. 2015-16 (Rs.)	Expenditure (Rs.)
A)	State Govt. 01- Crop. Husb. (Non-Plan)		
1.	Pension	104,87,60,000	102,25,13,000
2.	D.C.P.S.	2,50,00,000	2,50,00,000
3.	Salary	128,69,46,000	127,15,24,000
4.	Contingency	13,26,45,000	13,26,45,000
	Total Rs	249,33,51,000	245,16,82,000
B)	State Govt. 03- Animal Husb.(Non-Plan)		
1.	Salary	2,38,57,000	2,38,57,000
2.	Contingency	11,56,000	11,56,000
	Total Rs.	2,50,13,000	2,50,13,000
	Total Rs. A + B	251,83,64,000	247,66,95,000
C)	State Govt. 01- Crop.Husb.(Plan)		
1.	ICAR Funded Plan Schemes State Govt. Share 25 %	4,83,00,000	4,83,00,000
2.	College of Agril., Karad	5,11,00,000	4,90,71,988
3.	College of Agril., Muktainagar	3,36,01,000	0
4.	Gene Bank Strengthening	10,00,00,000	0
5.	Strengthening of Irrigation System	24,50,000	24,50,000
	Total Rs.	23,54,51,000	9,98,21,988
D)	College of Agril., Nandurbar (TSP)	6,28,00,000	3,50,00,000
	Total Rs.	6,28,00,000	3,50,00,000
E)	State Govt. (Schemes)		
1.	Rashtriya Krishi Vikas Yojana	3,42,03,600	3,42,03,600
2.	Indo – Israel Project	30,00,000	30,00,000
3.	E.B.C. Scholarship	17,79,75,217	17,79,75,217
4.	National Service Scheme	19,04,150	19,04,150
5.	Funds from Commissioner of Agril.	69,65,800	69,65,800



6.	Funds from State Other Institution	1,06,57,307	1,06, 57,307
	Total Rs.	23,47,06,074	23,47, 06,074
F)	ICAR, New Delhi		
1.	75 : 25 % Schemes	22,28,94,599	22,28,94,599
2.	100 % Schemes	18,46,15,919	18,46,15,919
	Total Rs.	40,75,10,518	40,75,10,518
G)	Central Govt. Scheme		
1.	Central Govt. Scheme	5,54,63,772	5,54,63,772
	Total Rs.	5,54,63,772	5,54,63,772
H)	University Revenue Receipts		
1.	Revenue Receipts	22,07,22,007	21,42,56,239
	Total Rs.	22,07,22,007	21,42,56,239
	Total Rs. (A+B+C+D+E+F+G+H)	373,50,17,371	352,34,53,591





University Publications



Agricultural Technology DVDs





Mahatma Phule Krishi Vidyapeeth

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