Department of Horticulture
Post Graduate Institute
Mahatma Phule Krishi Vidyapeeth
Rahuri-413 722, Dist. Ahilyanagar (MS)

The Horticulture departmental activities started at the Central Campus, Rahuri in 1972-73. Ten districts viz. Ahilyanagar, Nasik, Jalgaon, Dhule, Nandurbar, Pune, Kolhapur, Satara, Solapur, and Sangli are under the operational areas of Mahatma Phule Krishi Vidyapeeth, Rahuri where active research on horticulture is being carried out. The significant contribution made by this department in respect of education, research and extension is summarized in the abridged form hereunder.

Faculty

S.N.	Name	Designation	Phone No. (O)	E-mail
1.	Dr. B. T. Patil	Head Department of Horticulture	02426-243 247	vegbreedermpkv@gmail.com
2.	Dr. J. K. Dhemre	Professor (CAS)		jkdhemre71@gmail.com
3.	Dr. D. B. Kshirsagar	Professor (CAS)		drdbk69@ rediffmail.com

Education

The Department imparts education in Horticulture to the undergraduate students admitted at various Agricultural Colleges viz., Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon, Malegaon ; College of Horticulture, Pune and Malegaon and Dr. A. S. College of Agril. Engineering and Technology, Rahuri. Two Mali Training Centres are operational at Central campus, Department of Horticulture, Rahuri and ZARS, Ganeshkhind, Pune.

Post graduate programme in Horticulture M. Sc. and Ph. D. in disciplines like Fruit Science and Vegetable Science at Central Campus, Rahuri while M. Sc. in Floriculture and Landscaping at College of Agriculture, Pune as well as M.Sc. in Vegetable Science at

College of Agriculture, Kolhapur and M. Sc. in Fruit Science at College of Agriculture, Dhule.

From the year 1969 to 2026, total 631 in M. Sc. and 141 in Ph. D. students awarded degree from this department.

Academic Programmes

a) Masters Programme:

Sr. No.	Particulars	Intake	Location
1	Fruit Science	06	Central Campus, Rahuri
		04	College of Agriculture, Dhule
		03	Dr. Sharadchandra Pawar, College of Agriculture, Baramati
2	Vegetable Science	06	Central Campus, Rahuri
		06	College of Agriculture, Kolhapur
		03	Dr. Sharadchandra Pawar, College of Agriculture, Baramati
3	Floriculture	06	College of Agriculture, Pune

b) Doctoral Programme:

Sr. No.		Intake	Location
1	Fruit Science	04	Central Campus, MPKV, Rahuri
2	Vegetable Science	04	Central Campus, MPKV, Rahuri

c) Mali Training Course:

Sr. No.	Particulars	Intake	Location
1	**Mali Training Course**	40	Central Campus, MPKV, Rahuri
2		40	Regional Fruit Research Station, Ganeshkhind, Pune

Master's Programme in Fruit Science

Course Layout
Minimum Credit Requirements

Sr. No.	Subject	Minimum credit (s)
1.	Major	20
2.	Minor	08
3.	Supporting	06
4.	Compulsory Non Credit Courses	05
5.	Seminar	01
6.	Research	30
	Total Credits	**70**

Sr. No.	Course Number	Course Title	Credits
A) **Major Subjects (Min. 20 credits)**			
1	FSC–501*	Tropical Fruit Production	2+1=3
2	FSC-502*	Subtropical and Temperate Fruit Production	2+1=3
3	FSC-507	Growth and Development of Fruit Crops	2+1=3
4	FSC–503*	Propagation and Nursery Management of Fruit Crops	2+1=3
5	FSC-504*	Breeding of Fruit Crops	2+1=3
6	FSC-505	Systematics of Fruit Crops	2+1=3
7	FSC 506	Canopy Management in Fruit Crops	1+1=2
B) **Minor Subjects (Min. 08 credits)**			
1	PP-501	Principles of Plant physiology -1 : Plant water Relations and Mineral Nutrition	2+1=3
2	BIOCHEM-501	Basic Biochemistry	3+1=4
3	GPB 506	Molecular Breeding and Bioinformatics	2+1=3
C) **Supporting Subjects (Min. 06 credits)**			
1	STAT 502	Statistical Methods for Applied Sciences	3+1=4
2	STAT 511	Experimental Designs	2+1=3
D) **Seminar (01 credit)**			
1	FSC – 591	Seminar	0+1=1
E) **Master's Research (30 credits)**			

1	FSC-599	Master's Research	0+30=30
F) Non Credit Compulsory Courses			
1	PGS – 501	Library and information services	0+1=1
2	PGS – 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS – 502	Technical Writing and Communication Skill	0+1=1
4	PGS – 503	Intellectual Property and its Management in Agriculture	1+0=1
5	PGS – 505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1

- ***Compulsory major courses**

Master's Programme in Vegetable Science

Course Layout
Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	20
2.	Minor	08
3.	Supporting	06
4.	Compulsory Non Credit Courses	05
5.	Seminar	01
6.	Research	30
	Total Credits	**70**

Sr. No.	Course Number	Course Title	Credits
A) Major Subjects (Min. 21 credits)			
1	VSC 502*	Production of Warm Season Vegetable Crops	2+1=3
2	VSC 503*	Growth and Development of Vegetable Crops	2+1=3
3	VSC 504*	Principles of Vegetable Breeding	2+1=3
4	VSC 501*	Production of Cool Season Vegetable Crops	2+1=3
5	VSC 506	Breeding of Cross Pollinated Vegetable Crops	2+1=3

6	VSC 507	Protected Cultivation of Vegetable Crops	2+1=3
7	VSC 508	Seed Production of Vegetable Crops	2+1=3
B) Minor Subjects (Min. 08 credits)			
1	BIOCHEM 501	Basic Biochemistry	3+1=4
2	PP 501	Principles of Plant Physiology-I Plant Water Relation and Mineral Nutrition	2+1=3
3	GPB 506	Molecular Breeding and Bioinformatics	2+1=3
C) Supporting Subjects (Min. 06 credits)			
1	STAT 502	Statistical Methods for Applied Sciences	3+1=4
2	STAT 511	Experimental Designs	2+1=3
D) Seminar (1 credit)			
1	VSC - 591	Seminar	0+1=1
E) Master's Research (30 credits)			
1	VSC-591	Master's Research	0+30=30
F) Non Credit Compulsory Courses			
1	PGS - 501	Library and information services	0+1=1
2	PGS - 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS - 502	Technical Writing and Communication Skill	0+1=1
4	PGS - 503	Intellectual Property and its Management in Agriculture	1+0=1
5	PGS – 505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1

- ***Compulsory major courses**

Master's Programme in Floriculture and Landscaping

Course Layout
Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	20
2.	Minor	08
3.	Supporting	06
4.	Compulsory Non Credit Courses	05
5.	Seminar	01
6.	Research	30
	Total Credits	**70**

Sr. No.	Course Number	Course Title	Credits
A) Major Subjects (Min. 20 credits)			
1	FLS- 501	Systematics of Ornamental Plants	1+1=2
2	FLS- 502	Breeding of Flower Crops and Ornamentals	2+1=3
3	FLS- 510	Protected Cultivation of Flower Crops	2+1=3
4	FLS- 503	Commercial Production of Cut flowers	2+1=3
5	FLS- 504	Commercial Production of Loose Flowers	2+1=3
6	FLS- 509	Value Addition In Floriculture	2+1=3
7	FLS- 505	Ornamental Gardening and Landscaping	2+1=3
8	FLS - 506	Indoor Plants and Interiorscaping	1+1=2
B) Minor Subjects (Min. 10 credits)			
1	BIOCHEM-501	Basic Biochemistry	3+1=4
2	GPB- 516	Breeding for Stress Resistance and Climate Change	2+1=3
3	AGM-505	Micrometeorology	2+1=3
C) Supporting Subjects (Min. 06 credits)			
1	STAT- 502	Statistical Methods for Applied Science	2+1=3
2	STAT- 511	Experimental Designs	2+1=3
D) Seminar (01 credit)			
1	FLS- 591	Seminar	0+1=1
E) Master's Research (30 credits)			
1	FLS-599	Master's Research	0+30=30
F) Non Credit Compulsory Courses (05 credits)			
1	PGS- 501	Library and Information Services	0+1=1
2	PGS- 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS-502	Technical Writing and Communication Skills	0+1=1
4	PGS-503	Intellectual Property and Its Management in Agriculture	1+0=1
5.	PGS-505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1

Doctoral Programme in Fruit Science

Course Layout
Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1	Major	12
2	Minor	06
3	Supporting	05
4	Seminar	02
5	Research	75
	Total Credits	**100**
6	Compulsory Non Credit Courses	05

Sr. No.	Course Number	Course Title	Credits
D) Major Subjects (Min. 12 credits)			
1	FSC 602*	Modern Trends in Fruit Production	3+0=3
2	FSC 603	Recent Developments in Growth Regulation	3+0=3
3	FSC 601*	Innovative Approaches in Fruit Breeding	3+0=3
4	FSC 606	Abiotic Stress Management in Fruit Crops	2+1=3
E) Minor Subjects (Min. 06 credits)			
1	GPB 602	Advances in Biometrical Genetics	2+1=3
2	BIOCHEM - 603	Bio-chemistry of Biotic and Abiotic Stress	3+0=3
F) Supporting Subjects (Min. 05 credits)			
1	Agron 604	Recent Trends in Weed Management	2+0=2
2	STAT 522	Data Analysis Using Statistical Packages	2+1=3
F) Seminar (02 credits)			
1	FSC-691	Doctoral Seminar I	0+1=1
2	FSC-692	Doctoral Seminar II	0+1=1
G) Doctoral Research (75 credits)			
1	FSC - 699	Doctoral Research	0+75=75
F) Non Credit Compulsory Courses			
1	PGS - 501	Library and Information Services	0+1=2
2	PGS - 504	Basic Concepts in Laboratory Techniques	0+1=2
3	PGS - 502	Technical Writing and Communication Skills	0+1=2

4	PGS - 503	Intellectual Property and its Management In Agriculture	1+0=1
5	PGS – 505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1

***Compulsory major courses**

Doctoral Prgramme in Vegetable Science

Course Layout
Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	12
2.	Minor	06
3.	Supporting	05
4.	Seminar	02
5.	Research	75
	Total Credits	**100**
6.	Compulsory Non Credit Courses	05

Sr. No.	Course Number	Course Title	Credits
A) Major subjects (Min. 18 credits)			
1	VSC 601*	Recent Trends in Vegetable Production	3+0=3
2	VSC 602*	Advances in Breeding of Vegetable Crops	3+0=3
3	VSC 603	Abiotic Stress Management in Vegetable Crops	2+1=3
4	VSC 604	Seed Certification, Processing and Storage of Vegetable Crops	2+1=3
B) Minor Subjects (Min. 08 credits)			
1	GPB 602	Advances in Biometrical Genetics	2+1=3
2	BIOCHEM-603	Biochemisty of Biotic and Abiotic Stress	3+0=3
C) Supporting Subjects (Min. 05 credits)			
1	Agron 604	Recent Trends in Weed Management	2+0=2
2	STAT 522	Data Analysis Using Statistical Packages	2+1=3

D) Seminar (02 credits)			
1	VSC 691	Doctoral Seminar I	0+1=1
2	VSC 692	Doctoral Seminar II	0+1=1
E) Doctoral Research (75 credits)			
	VSC 699	Doctoral Research	0+75=75
F) Non Credit Compulsory Courses			
1	PGS-501	Library and Information Services	0+1=1
2	PGS-504	Basic Concepts in Laboratory Techniques	0+1=1
3	PGS-502	Technical Writing and Communication Skills	0+1=1
4	PGS-503	Intellectual Property and its Management in Agriculture	1+0=1
5	PGS – 505	Agricultural Research, Research Ethics and Rural Development Programmes	1+0=1

Centre of Advanced Faculty Training in Horticulture (Fruits)

The most important training programme i.e. The Centre for Advanced Faculty Training in Horticulture (Fruits) was sanctioned by Indian Council of Agriculture Research, New Delhi in the year 1994. ICAR allotted this Centre as a National Training Centre on various aspects of fruit production. Till today, thirty National trainings were organized by this centre on various aspects and themes on Horticulture (Fruits) and 600 trainees were benefited from India since 1996.

Hi-tech Floriculture / Vegetable Unit

Rest of Maharashtra Legislative Development Board (*Urvarit Maharashtra Vaidhanik Vikas Mahamandal*) sanctioned Rs. 3.00 crores for the establishment of Hi-Tech Floriculture Project, Department of Horticulture, College of Agriculture, Pune under Mahatma Phule Krishi Vidyapeeth, Rahuri in the year 2000. The objectives of the project are to demonstrate the greenhouse technology, to grow and undertake research in cut flowers like Rose, Gerbera, Carnation and coloured Capsicum and to conduct trainings for farmers and students. The total area under polyhouses of the project is 1.80 ha growing Rose, Gerbera, Carnation, Capsicum and Anthurium whereas the Orchid and Lilium are grown under Shade-Net houses. As **Hi-tech Floriculture** is a leading Centre in Maharashtra, more than 1550 students from Agricultural Diploma and Mali Training

centers were benefited as well as 1950 youth, entrepreneurs and farmers were trained from this project.

Laboratories

Well equipped two M. Sc. and Ph. D. laboratories, two classrooms, one seminar hall with smart class room, one PHT laboratory, CAFT laboratory at Central Campus, MPKV, Rahuri for post graduate teaching and research programme. Similar laboratory facilities are also available at horticulture section at various Agriculture and Horticulture college for under graduate students. All essential advanced equipments are available in laboratories and M. Sc and Ph. D students were allowed to work with these equipments.

Post-Harvest Technology Laboratory

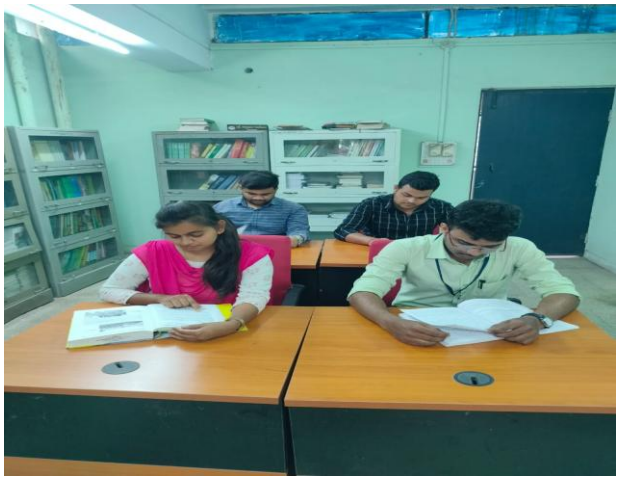
The Post-Harvest Technology Unit, Department of Horticulture, MPKV, Rahuri has established protocol for fruit juice based beverages and processed products.

Library

Separate department library is available and more than 3000 text, reference and competitive books, journals and compendium are available in this library.



Post Graduate Laboratory



Section Library



Post Graduate Laboratory



Post Graduate Laboratory



Seminar Hall



Seminar Hall



Lecture Photo



Lecture Photo

	
Practical Photo	**Practical Photo**

Thesis submitted by the students of M. Sc. in Horticulture during last Ten years

Sr. No.	Name of the student	Reg. No.	Title of the Thesis	Name of Research Guide
2015				
1	Mr. Jadhav N. G.	2012/315	Effect of Growth Regulators and Chemical & Organic Wastes on Germination & Subsequent Growth of Rangpur Lime Seedlings.	Dr. D. D. Jagtap
2	Baryalai Serat	2013/207	Effect of shade net on quality of Grape cv. Thompson seedless	Dr. S. S. Kulkarni
3	Mr. Miilion P. Madebo	2013/206	Micro-propagation studies in Banana (*Musa paradisiaca*) cv. Grand Naine.	Dr. V.R. Joshi
4	Miss. Tapkir M. B.	2013/200	Standardization of Protocol for Preparation of Guava (*Psidium guajava* L.)	Dr. J. K. Dhemre
5	Miss. Neware S.	2013/201	Effect of Plant Growth Regulators and Micronutrients on Sweet Orange.	Dr. D. D. Jagtap
6	Miss. Galande S. B.	2013/202	Effect of Foliar Application of Fertilizers on Yield and Quality of Mango (*Mangifera indica* L.) cv. Kesar.	Dr. B. V. Garad
7	Miss. Chatale P. D.	2013/208	Genetic Variability Studies in Cluster Bean (*Cyamopsis tetragonoloba* (L.) Taub).	Dr. B. T. Patil
8	Mr. Nanaware M. B.	2013/210	Integrated Weed Management Studies in Onion (*Allium cepa* L.) Seed Crop cv. Phule Samarth.	Dr. S. G. Bhalekar
9	Mr. Rathod D.H.	2013/211	Studies on Integrated Nutrient Management in rabi Onion (*Allium*	Dr. K. G. Shinde

			cepa L.).	
10	Mr. Avhad A. B.	2013/212	Studies in Integrated Nutrient Management in Hybrid Tomato (*Solanum lycopersicum* L.).	Dr. D. B. Kshirsagar
11	Mr. Mane P. V.	2012/312	Studies on Effect of Lac Based wax on Extending the shelf Life of Pomegranate (*Punica granatum* L.) cv. Bhagwa.	Dr. J. K. Dhemre
12	Miss. Nadkarni B. H.	2015/63	Effect of Agro Techniques on Pollen Viability and Fruit Set in Custarad Apple (*Annona sqauamosa* L.) cv. Balanagar.	Dr. V. S. Supe
2016				
13	Mr. Amit Simpi	2014/327	Effect of Bioagents And Biofertlizers On Growth And Survival of Pomegranate (*Punica granatum* L.) Layers.	Dr. H. K. Shirsath
14	Pathak K. K.	2014/322	Micropropagation studies in Pomegranate (*Punica granatum* L.) cv. Phule Bhagwa Super.	Dr. V. S. Supe
15	Miss. Khakate S. M.	2014/323	Effect Agro Techniques on Pollen Viability and Fruit Set in Custard Apple (*Annona squamosa* L.) cv. Balanagar.	Dr. H. K. Shirsath
16	Doke N. D.	2014/325	Effect of Ethylene on Physiological and Qualitative Changes During Ripening of Mango (*Mangifera indica* L.) cv. Kesar.	Dr. J. K. Dhemre
17	Mr. Rode V. R.	2014/332	Genetic Variability Studies In Okra (*Abelmoschus esculentus* (L.) Moench.	Dr. B. T. Patil
18	Jamdhade S. S.	2014/335	Screening of Tomato (*Solanum lycopersicum* L.) Genotypes Under High Temperature Regime.	Dr. M. B. Shete
19	Ranpise P. S.	2014/336	Genetic Diversity Studies In Okra (*Abelmoschus esculentus* (L.) Moench).	Dr. V. R. Joshi
2017				
20	Mr. Zaki Ahmad Faizi	2015/323	Studies on Preparation of Carbonated Ready to Serve Beverage From Mandarin orange.	Dr. A.M. Musmade
21	Mr. Dhumal C. Y.	2015/319	Standardization of Protocol for Preparation of Rabi From Different Fig (*Ficus carica* L.) Products.	Dr. J K. Dhemre
22	Mr. Kshirsagar A. V.	2014/325	Effect of Different Beheadding	Dr. S. S. Kulkarni

			Levels on Initial Growth Parameters of Mango Under High Density Planting cv. Kesar and Vanraj.	
23	Miss. Patil S. S.	2014/325	Effect of Plant Growth Regulators on Yield and Quality of Mango (*Mangifera indica* L.) cv. Kesar.	Dr. S. S. Kulkarni
24	Miss. Gade M. N.	2015/321	Studies on Use of Organic Manures and Biofertilizers on Growth, Yield and Quality in Sweet Oranage (*Citrus sinensis* (L.) Osbeck cv. Mosambi.	Prof. P. S./ Pawar
25	Mr. Gulave C. M	2015/324	Effect of Agro Techniques on Pollen Viability and Fruit Set Custard Apple (*Annonas squamose* L.) cv. Balanagar.	Dr. V. R. Joshi
26	Mr. Chiktey H. M.	2015/330	Effect of Sulphur on Growth Yield and Quality of Garlic (*Allium sativum* L.).	Dr. M. B. Shete
27	Miss. Gaganpreet M. S.	2014/332	Studies on Weed Management In Garlic (*Allium sativum* L.).	Dr. B. T. Patil
28	Mr. Prashant Gourani	2014/335	Heterosis and Combining Ability Studies in Tomato (*Solanum lycopersicum* L.).	Dr. M. B. Shete
29	Miss. Nangare S. B.	2015/331	Effect of Salicylic Acid on Onion (*Allium cepa* L.).	Dr. S. S. Dighe
2018				
30	Lavhate S. B.	2016/ 299	Clonal selection in Mango (*Mangifera indica* L.) Cv. Kesar.	Dr. M.B. Shete
31	Korade V. N.	2016/306	Evaluation of Dolichos Bean (Pawata type) Genotypes.	Dr. B.J. Shete
32	Londhe M. B.	2016/307	Effect of plant growth regulators and micronutrients on fruit setting, yield, and quality of Tomato (*Solanum lucopersicum* L.) during summer season.	Dr. D. B. Kshirsagar
33	Pawar M. S.	2016/309	Integrated nutrient management in Okra (*Abelmoschus esculentus* (L.) moench) cv. Phule Vimukata.	Dr. K.G. Shinde
34	Gangurde S. B.	2016/308	Performance of Chilli genotypes under different planting time during summer season.	Dr. B.T. Patil
35	Miss. Mandlik V. S.	2016/296	Effect of different chemicals on fruiting and yield of Mango (*Mangifera indica* L) cv. Keshar	Dr. S.S. Kulkarni
2019				

36	Mr. Mane Swapnil Subhash	2017/317	Effect of preharvest sprays of chemicals on yield, quality and shelf life of pomegranate (*Punica granatum* L.) cv. Phule Bhagwa Super	Prof. M.H. Gawade
37	Mr. Ugale Sanket Gorakshnath	2016/297	Evaluation of Jamun (*Syzigium cumini* L.) genotypes for physicochemical parameters.	Dr. J. K. Demre
38	Miss. Kamble Surekha Sakharam	2017/315	Evaluation of ber (*Zizyphus mauritiana* Lamk.) genotypes for morphological and physico-chemical characters.	Dr. V. R. Joshi
39	Mr. Rjendra Kumar	2017/318	Evaluation of tamarind (*Tamarindus inidca* L.) genotypes for growth, Yield and quality	Prof.A.L.Palande
40	Mr. Bismillah Shinwari	2017/320	Studies on effect of foliar application of micronutrients on yield and quality of pomegranate (*Punica granatum* L.) cv. Phule Bhagwa Super	Dr.S. S. Kulkami
41	Miss. Sneha Devendra Sawai	2017/314	Effect of different spacing's and nutrients on growth, yield and quality of acid lime (*Citrus aurantifolia* Swingle) cv. Phule Sharbati	Prof.P.S.Pawar
42	Miss.Wanave Ashwini Vilas	2017/313)	Evaluation of ber *(Zizyphus mauritiana* Lamk.) genotypes for morphological and physic-chemical characters	Dr. S.S.Kulkarni
43	Mr. Patil Nitin satyapal	2017/327	Secreening of F l hybrids of Tomato (*Solanum lycopersicum* L.).	Dr. D. B. Kshirsagar
44	Miss. Badhe Snehal Suresh	2017/325	Effect of foliar application of water soluble fertilizers in fertilizers in hybrid tomato (*Solanum lycopersicum* L.)	Dr. D. B. Kshirsagar
45	Mr. Birje Prasad Ramkrishna	2017/326	Performance study of F1 hybrids of tomato (*Solanum lycopersicum* L)	Dr.D.B. Kshirsagar
46	Miss. Gade Pornima Rajendra	2017/324	Response of garlic to silicon (cv. Phule Nilima)	Dr. B.J. Shete
47	Miss. Surbhi Prithiani	2017/329	Evaluation of different onion (*Allium cepa* L.) varieties for green leaves	Dr. S.S.Dighe
48	More Kiran. K.	2017/316	Effect of packing material on	Dr. S.S.Dighe

			storage of Pomegranate Bhagawa	
2020				
49	Mr. Mane Swapnil Subhash	2017/317	Effect of preharvest sprays of chemicals on yield, quality and shelf life of pomegranate (*Punica granatum* L.) cv. Phule Bhagwa Super	Prof. M.H. Gawade
50	Mr. Rathod Kiran kumar Shanataram.	2017/328	Evaluation of *Rabi* onion genotypes for morphological, biochemical and storage characters	Dr.B.J.Shete
51	Mr. Solanke JaysingChatarsing	2018/296	Biosystemic Student in *Hylocereus spp*	Dr. S. S. Dhumal
52	Miss.RukadikarManisha Vinayak	2018/294	"Studies on use of Micronutrients Sweet Orange *(Citrus sinensis* Osbeck) cv.Mosambi	Prof. P. S. Pawar
53	Uttekar Shital Amadas.	2018/293	Effect of Pre-Harvest and Post-Harvest Formulations of Hexanal for Extending shelflife of Acid Lime (*Citrus auarantifolia* Swingle) cv. Phule Sharbati.	Dr. S.S.Dighe
54	Mr. Pawar Shubham Nagnath	2018/297	Effect of Bagging on Quality of Mango (*Mangifera indica* L.)Fruits cv.Keshar	Prof. A.L. Palande
55	Miss.RamatekeShayuJairam	2018/301	Studies on transgressive segregation in tomato (*Solanum lycopersicum* L.)	Dr.D.B. Kshirsagar
56	Mr. Bajode Vilas Janardhan	2018/305	Effect of plant spacing and apical pinching on growth and yield of okra (*Abelmoschus esculentus* L.) cv.Phule Vimukta	Dr.B.B.Dhakare
57	Mr. Surve Aditya Pradeep	2018/304	Response of onion *(Allium cepa* L.) to soil and foliar application of micronutrient on kharif season	Dr. A.V. Chandanshive
58	Mr. Godase Swapnil Ankush	2018/303	Standardization of Different spacings and fertilizer Levels on Grafted Brinjal	Prof. V. S. Bharmal
59	Mr. Mhaske Digambar Dada	2018/306	Evaluation of Bottle Gourd (*Lagenaria sicerara* (Mol.) stand) Genotypes for growth and yield.	Dr. A. B. Bhosale
60	Mr. Kadu Akshay Ganeshrao	2018/302	Effect of Integrated nutrient management on Growth yield and Quality Traits of kharif Onion	Dr. P. D. Dalve

61	Ramteke S. J.	2018/29	Studies on Transgressive segregation in Tomato	Dr.D.B. Kshirsagar
2021				
62	Miss. Dongre R.N.	2019/297	Propagation Studies in Guava	DR.P.D.Dalve.
63	Miss. Manasa H.P.	2019/300	Evaluation of promising rootstocks for sweet orange (*Citrus sinensis* L. Osbeck) cv. Phule Mosambi	Prof. P .S . Pawar
64	Miss. Jadhav P. S.	2018/298	Assessment of physic-chemical changes in mango fruit at different stages of growth and development	Dr. S.B. Jadhav
65	Miss. Pansare Urmila Dnyandeo	2019/306	Assessment of roasting type brinjal hybrids (*Solanum melongena* L.)	Dr. V R .Joshi
66	Mr. Yashwanth K. N.	2019/311	Response of tomato (*Solanum lycopersicum* L.) grafted on tomato rootstock for growth, yield and quality attributes	Dr. S.S. Kulkarni
67	Mr. Kharat K.P.	2019/310	Evaluation of tomato genotypes resistance to tomato leaf curl virus disease for yield and quality (*solanum lycopersicum* L.)	Dr.A.V. Chandanshive
68	Miss. Nimbalkar R.S.	2019/311	Response of tomato grafted on brinjal rootstock for growth, yield and quality	Dr. D.B. Kshirsagar
69	Barhate K. R.	2019/307	Effect of integrated on quality seed yield in Cucumber (*Cucumis sativus* L.)	DR. B. B.Dhakare
2022				
70	Mr.Imatyazahamed Teli	2020/314	Evaluation of F1 Hybrids of Ridge Gourd (*Luffa acutangula* (Roxb.L)	Dr.S. R. Shinde
2023				
71	Miss. Pisal Rutuja Satish	2020/299	Effect Of Inorganic Fertilizers on Growth,Yield And Quality Of Dragon Fruit (*Hylocereus undatus*)	Smt.S.B.Deore
72	Mr.Pandhare Yashwant Rajkumar	2020/301	Response Of Acid Lime (C*itrus aurantifolia* Swingle) cv. Phule Sharbati To Micronutrients.	Prof.P.S. Pawar

73	Mr.Kardak Shivam Murlidhar	2020/303	Evaluation Juice Varieties of Grape (*Vitis vinifera* L.)	Dr.S.B. Jadhav
74	Mr.Appasab Kambagi	2020/304	"Assessment of Biochemical Changes During Fruit Grouth And Development of Custard Apple (*Annona squamosa* L.) cv. Balanagar And Phule Janaki"	Smt.S.B. Deore
75	Miss. Suryawanshi sunayna Nijaysing	2021/299	Rejuvention of old and setile custard apple (*Annona squamosa* L.) Orchard cv. Balanagar	Smt. S. B. Deore
76	Mr.More Vinod Yuvraj	2020/313	Standardization of Rootstock For Yield, Quality And Major Diseases In Sweet Pepper (*Capsicum annuum* L.)"	Dr.A.V. Chandanshive
77	Miss.Ingle Hemlata Prakash	2020/309	Evaluation of Genotypes Of Dolichos Bean (*Dolichos labab* L.)	Mrs. D.D.Patil
78	Miss.Dhole Shubhangi Ananta	2020/310	"Response Of Brinjal Grafted On *Solanum torvum* For Growth And Yield"	Dr. K.N. Dahatonde
79	Mr.Mane Mayur Tukaram	2020/311	Genetic Variation In Phisiological Responses to Drought In Cluster Bean *(Cyamopsis tetragonoloba* L.) Genotypes	Dr.A.V. Chandanshive
80	Mr.chaudhari Rushikesh Vinod	2020/312	Evaluation of Bottle Gourd (*Lagenaria Siceraria* (Mol) Stand) Hybrid For Growth And Yield.	Dr.D.B.Kshirsagar .
81	Miss. Khode Vaishnavi Vijendra	2019/309	Variability studies in elite type of Okra (*Abelmoschus esculentus* L. Monech) genotypes	Smt. S.R. Shinde
2024				
82	Mr. Wathore Sumit Dilip	2021/302	Effect of Micronutrients on Grwoth, Yield and Fruit quality of Acid Lime (*Citrus aurantifolia* Swingle) cv. Sai Sharbati	Prof. P. S. Pawar
83	Miss. Kasture Anisha Anandrao	2022/290	Evaluation of strawberry (*Fragaria X ananassa* Duch.) genotypes under Rahuri conditions	Dr. S. D. Magar

84	Miss. Soundarya R.	2022/295	Evaluation of different jamun genotypes for morphological physiochemical characteristics	Dr. D. B. Kshirsagar
85	Miss. Attar Jasmin Rashid	2022/291	Evaluation of promising genotypes of mango (*Mangifera indica* L.) for growth, yield and quality	Dr, S. A. Ranpise
86	Mr. Kurde Atish Madhukar	2022/293	Evaluation of Promising clones of Grape fruit	Prof. P. S. Pawar
87	Mr. Patil Abhishekh Sunil	2022/292	Standardizationof lime of pruning and in custard apple (*Annnona squamosa* L.) C. V. Balanga	Prof. A. V. Attar
88	Miss. Gawade Akshta Dadasaheb	2021/310	Effect of Training Techniques on yield and quality of capsicum Under Protected Cultivation (*Capsicu, annum var*. grossum Sendt.)	Dr. A. V. Chandanshive
89	Mr. Deshmukh Praful Prakash	2021/311	Evaluation of Red Pumpkin (*Cucurbita Moschuta* Duch Ex. Poir) Genotypes for Growth, Yield and Quality	Dr. D. B. Kshirsagar
90	Mr. Bankar Varsha Popat	2021/308	Variability studies in Cowpea (*Vigna unguiculata* (L.) Walp)	Dr. S. R. Shinde
91	Mr. Daware M. D.	2021/312	Variability studies of F4 generation in Bitter Gourd (*Momordica charantia* L.)	Dr. M. N. Bhalekar
92	Miss. Piruthiga B.	2022/308	Effect of nano urea on growth and yield of *kharif* onion (*Allium cepa* L.) cv. Phule Samarth.	Dr. S. R. Shinde
93	Miss. Bhoye Varsharani Ranaji	2022/303	Weed management studies in Onion (*Allium cepa* L.) seed crop	Dr. B. T. Patil
2025				
94	Mr. Sivamari T.	2023/340	Morphological and physiochemical characterization of Grape Rootstock cuttings under Semi-Arid Condition	Dr. S. P. Gaikwad
95	Mr. Sona. H. S.	2023/339	Effect of Plant Growth Regulators, Biostumulants and Micronutrients on Growth, Yield and Quality of Strawberry (*fragaria X ananassa* Duch.) CV.	Dr. S. D. Magar

			Winter Dawn under Rahuri Condition	
96	Miss. Nutan Ravindra Nikam	2023/334	Effect of Folar spray of Sulphate of Potash and Potassium Nitrate on yield and Quality of Pomegrante v. Phule Bhagwa Super	Dr. S. A. Hiray
97	Miss. Fule Rutuja	2023/354	Effect of foliar spray of potassium Nitrate on Growth and yield of Rejuvenated Custard Apple (*Annona squamosa* L.) ev.	Dr. Dhemre J. K
98	Mr. Patil Rahul Vinayak	2023/354	Effect of propagation media on air layering in Pomegranate	Dr. S. D. Magar
99	Mr.Gore Aditya Rajendra	2023/335	Studies on Preparation and Qualitative Evaluation of Grapefruit Ready to Serve Beverage.	Dr.S.S.Dighe
100	Mr. More Kalpesh Baliram	2023/337	Effect to Plant Bio regulators on Colour Development in Table Varities of Grapes (*Vitis vinifera* L.)	Dr.S.B.Jadhav
101	Mr. Gholave Shivkumar Santosh	2023/350	Weed Management studies in Onion (*Allium cepa* L.) Bulb Crop	Dr. B. T. Patil
102	Miss. Pol Payal Pandurang	023/349	Morphological and Molecular Characterization of wild Alliums	Dr. A. V. Chandanshive
103	Miss. Rashmi T.P	023/354	Effe0ct of Plastic mulch and crop cover on growth and yield of onion (*Allium cepa* L.)	Dr. S.G.Gaikwad
104	Miss. Choudhary Snehal	023/354	Studies on effect of grafting on growth and yield of bottle gourd (*Lagenaria siceraria* L)	Dr. D.B.Kshirsagar

Thesis submitted by the students of Ph. D. in Horticulture during last Ten years

Sr. No.	Name of the student	Reg. No.	Title of the Thesis	Name of Research Guide
2015				
1	Sonawane M. S.	2011/75	Molecular Characterization of Pomegranate cv. Bhagwa and its Closely Related Genotypes.	Dr. V.S. Supe
2	Miss. Mali D. S.	2011/76	Standardization of Pruning Techniques in High Density Planting of Guava (*Psidium guajava* L.) cv. Sardar.	Dr. S.A. Ranpise
3	Miss. Dahatonde K. N.	2010/76	Studies on Processing and Value Addition of Bottle Gourd (*Lagenaria siceraria* (Mol.) Standl.).	Dr. A.M. Musmade
4	Mali M. D.	2011/33	Genetic Studies in F_3 and F_4 Generaions of Muskmelon (*Cucumis melo* L.).	Dr. A.M. Musmade
5	Mr. Bhosale A. B.	2012/83	Genetic Studies in F_2 and F_3 Generations of *Acoross citrullus Colosynthis* & *Citrurullus lanatus* (Thunb.) Mansf. of Watermelon.	Dr. T. A. More
6	Mr. Ghondhli B. V.	2011/78	Micro-propagation and Initiation of Transformation of Bacterial Blight Resistance in Pomegranate (*Punica granatum* L.).	Dr. T. A. More
7	Mr. Sable P. A.	2012/75	Effect of Paclobutrazol on Growth Yield and Quality Parameters of Grape Cv. Thompson Seedless.	Dr. S.S. Kulkarni
8	Mr. Ahire D. B.	2012/79	Assessment of Different Rootstocks of Pomegranate (*Punica granatum* L.).	Dr. S. A. Ranpise
2016				
9	Gharge	2010/80	Genetic Studies in Brinjal (*Solanum melongena*).	Dr. S. A. Ranpise
10	Kharde R. P.	2012/82	Fertigation and Irrigation Scheduling Studies in Brinjal (*Solanum melongena* L.).	Dr. S. A. Ranpise
11	Alekar A. N.	2013/77	Genetic Studies in F_3 and F_4 Generations of Bitter Gourd (*Momordica charantia* L.).	Dr. K. G. Shinde
2017				
12	Mr. Durgude R. A.	2013/70	Studies Induction of Flowering in Pomegranate (*Punica granatum* L.) cv. Phule Bhagwa.	Dr. V. A. Supe
2018				

13	Miss. Nadkarni B. H.	2015/63	Effect of Nutrient Scheduling on Yield and Quality of Pomegrante (*Punica granatum* L.) cv. Phule Bhagwa Super.	Dr. M. N. Bhalekar
14	Miss. Magar P. G.	2014/65	Genetics Studies in Brinjal (*Solanaum Melongena* L).	Dr. K. G. Shinde
15	Muthal K. M.	2013/74	Heterosis and Combining Ability Studies in Pumkin. (*Cucurbita moschata* Duch).	Dr. M. N. Bhalekar
16	Mahesh B. K.	2015/69	Effect of Salicylic Acid on Growth, Yield and Storage Quality of Onion (*Allium cepa* L).	Dr. S.A. Ranpise
		2019		
17	Mr. Taru Anil Sahebrao	2014/61	Fertigation studies in acid lime (*Citrus aurantifolia* Swingle) cv. Phule Sarbati.	Dr. S. A. Ranpise
18	Mr. Tayade Shaktikumar Aananda	2016/60	Variability studies in Jamun (*Syzygium Cumini* Skeels)	Dr. M. N. Bhalekar
19	Mr. Sanvar Mal Choudhary	2015/67	Standardization of pruning time and molecular characterization in guava (*Psidium guajava* L.) genotypes.	Dr. A. M. Musmade
20	Gondane Sanjivani Pravin	2015/68	Heterosis and combining ability studies in Bottle Gourd (*Lagenaria siceraria* (Mol.) Standl.)	Dr M. N. Bhalekar
21	Dalal Nitin Rajaram	2013/78	Dificit irrigation water managementon growth and yield of Drum stick *Morringa oleifera* Lamk). cv Bhagya KDM-1	Dr. M.N. Bhalekar
22	Magar Vaishnavi Ganesh	2014/064	Integrated weed management in cluster bean (*Cyamopsis tetragonoloba* (L)Taub).	DR. A. M . Musmade
		2020		
23	Palepad Kailas Baliram	2016/58	Effect of Nutrients scheduling on yield and quality of custard Apple (*Annona squamosa* L.) cv.Balanagar.	Dr. V. S. Supe
24	Mr. Thorat Amol Ramesh	2016/62	Stability analysis of yield of Dolichos bean (*Lablab purpureus* L.)	Dr. K. G. Shinde
25	Miss. Soyam Sonali Rajaram	2013/76	Induced mutation studies in chilli	Dr. A. M. Musmade
26	Mr. Malve	2016/64	Studies on heterosis and combing	Dr. M. N. Bhalekar

	Ganesh Maruti		ability in Ridge gourd (*Luffa acutangula* (L.) Raxb.)	
		2021		
27	Miss. Bansod Pallavi Naresh	2017/53	Evaluation of M3 and M4 Generation of Natural Mutant of Dolichos bean	Dr. M. N. Bhalekar
28	Panchal K. N.	2017/53	Heterosis and combining ability studies in Okra	Dr. M. N. Bhalekar
29	Mr. Pawar Balaji Ganpatrao	2017/54	Response of Brinjal grafted on solanum torvum for growth yield and quality	Dr. M. N. Bhalekar
		2022		
30	Khan Salma Mustfa	2015/64	Biosystemic studies in randomly mated hybrid progenies of Mango (*Mangifera India* L)	Dr. S. A. Ranpise
31	Miss. Ingole Vaishali Sureshrao	2018/52	Variability studies in F4 and F5 generations of pumpkin *(Cucurbita moschata* Duch Ex Poir).	
32	Miss. Patil Sneha Suresh	2017/49	Standardization of protocol for supply chain Management of pomegranate (*Punica granatum* L.)	Dr.S. A. Ranpise.
33	Pawar Praphull Keshavrao	2018/54	Genetic Studies In Bitter Gourd (*Momordica charantia* L.)	Dr. M. N. Bhalekar.
		2023		
34	Mr.Mahorkar Kunal Dhananjay	017/52	Studies On Effect Of Pre And Post Harvest Treatments On Quality And Shelf Life of Custard Apple (*Annona squamosa* L.) cv.Balanagar.	Dr.V.R. Joshi.
35	Bhosale Shubham Shankar	018/59)	Effect of Nutrition and Packaging Material In High Density Planting of Mango (*Mangifera indica* L.) cv. Kesar.	Dr.B.B.Dhakare.
36	Mr. Virkar Amol Mahadev	018/57)	Studies on Extention of Shelf Life of Fresh and Minimaly Processed Sweet orange (*Citrus sinensis* L. Osbeck.) cv.Phule Mosambi	Dr.V.K.Garande
37	Miss.Tekkam Shirisha	019/61	Response of Muskmelon on Grafted On Pumpkin, Bottle Gourd and	Dr.V.R. Joshi.

			Sponge Gourd For Growth,Yield And Quality	
38	Mr.Ban Shyam Jayendra	019/62	Varibility Studies in F6 and F7 Generations of Pumpkin (*Cucurbita moschata* Duch Ex.Poir.)	Dr.D.B. Ksirsagar.
39	Mr. LavudiBheemlal Thulasiram	019/63	Genetic Studies in RidgeGourd (*Luffa acutangula* L.Ruxb)	Dr.S.A. Ranpise.
40	Miss. Dolas Vaishnavi Ashok	019/60	Response of Watermelon Grafted on Pumpkin,Bottle Gourd And Sponge Gourd For Growth,Yield And Quality	Dr.D.B. Ksirsagar.
41	Mr. Bahiram Vipul karma	2018/53	Genetic Studies in Bitter Gourd. (*Momordica charantia* L.)	Dr.V.R. Joshi.
		2024		
42	Mr.Thutte Anil Shivaji	2020/61	Performance of Crimson seedless grapevine grafted on different rootstocks.	Dr. J. K.Dhemre
43	Miss. Urade Pooja Sadashiv	2019/56	Standardization of Nutrients level for sweet orange under Western Maharashtra conditions.	Dr. V. K. Garande
44	Mr. Ghatul Ishwar Digambar	2019/56)	Survey and surveillance of mandarin (*Citrus reticulata* Blanco.) in Ahmednagar District.	Dr. J. K.Dhemre
45	Mr, Kharde Shivam Arun	2019/58)	Studies on Induction of early Flowering in Mango (Mangifea indica L.) cv. Kesar.	Dr. B. B.Dhakare
46	Miss. Whankate Ramakka Adaveppa	2020/61	Gentic Studies in Okra (*Ablemoschus esculentus* (L.) Moench.)	Dr. D.B. Kshirasagar
47	Miss. Deokar Shubhangi Pramod	2020/63	Variability studies in F4 & F5 generation of Ridge Gourd (*L. acutangula* L.)	Dr. B.B. Dhakare
		2025		
48	Miss. Gethe Apurva sanjeev	2020/58	Morphological and Biochemical characterization of different Guava Genotypes.	Dr.S.D.Patil
49	Miss. Rosangpuii Pachuau	2019/57	Effect of Pre- harvest sparayof Chemicals on extension of Harvesting period and post-harvest quality of sweet orange (*Citrus*	Dr. V. K.Garande

			sinensis L. Osbeck) Cv. Phule Mosambi	
50	Miss. Jadhav Priyanka Shivaji	2021/60	Floraland pollination biology studies in dragon fruit.	Dr. S.S. Dhumal
51	Miss. Dongare Rashmi Nandkishor	2021/59	Biochemical and molecular characterization of Jamun (*Syzygium cumini*) Genotypes.	Dr. C.V.Pujari
52	Miss. Ramteke Sharayu Jairam	2020/62	Morphologicla Biochemical and Molecular Characterization of Rabi Onion Geneotypes. (*Allium cepa* l.)	Dr. B.T. Patil
53	Miss. Pansare Urmila Dnyandeo	2021/63	Stability Analysis in Muskmelon (*Cucumis melo* L.)	Dr.B.B.Dhakare
54	Mr. Ralebhat Bhushan Nmadev	2021/64	Generation mean analysis study in Chilli (*Capsicum annum* L.)	Dr. B. T. Patil
55	Miss. Parul Mehera	2021/66	Heterosis and combining ability studies in Brinjal (*Solanum melongena* L.)	Dr.M.N. Bhalekar
2026				
56	Miss. Nale Rutuja Dadaso	Ph. D	Morphological, Biochemical and Molecular Characterization of Grape Accessions Grown under Sub tropical condition.	Dr.S.A.Ranpise
57	Mr. Kakade Pradip Babnrao	Ph. D	Evaluation of Morpho-physiological Nutritional and Enzymatic Characterizaton of Manjari Medika Grapevine Grafted On different Rootstock for Enhancing Natural Juice Quality	Dr.J.K.Dhemre
58	Mr. Mhaske Shriram Mahadev	Ph.D.	Genetic Studies in Muskmelon (*Cucumis melo* L.)	Dr.D.B.Kshirsagar
59	Miss. Jadhav Manisha Shvaji	Ph.D.	Morphological, Molecular and Biochemical Characterization of Kharif Onion (*Allium cepa* L.) Genotypes.	Dr. B. T. Patil

Adjunct faculty lectures

Adjunct faculty lecture (2021-22 to 2025-26**):-**

Sr. No.	Topic	Name and Designation of adjunct faculty	Date	Time
1.	Modern technology for cultivation in vegetable crops	Dr. R. R. Acharya, Head and Research Scientist (Vegetable), Main Vegetable Research Station, Anand Agricultural University, Anand, Gujrat	26.06.2023	16:00
2.	Mainstreaming underutilized fruits crops	Dr. B.N.S. Murthy, Ex-Director, ICAR, IIHR, Bengaluru	24/02/2025	11:00
3.	Current Status of Fresh Produce Export from India, Challenges and Future Opportunities"	Dr. BNS Murthy Ex Horticulture Commissioner, Govt of India, Delhi & Ex Director, ICAR-IIHR Bangalore, Karnataka.	08.09.2025	11:00
4.	Mitigating the Combined Effects of Biotic and Abiotic Stress Factors in Fruit Crops- Need for a Comprehensive Approach.	Dr. B.N.S. Murthy, Ex-Director, ICAR, IIHR, Bengaluru	05.01.2026	11:00
5.	Vegetable Farming- An Important Agri-enterprise"	Dr. R. R. Acharya, Head and Research Scientist (Veg.) Main Vegetable Research Station,Anand Agricultural University Anand, Gujarat.	17.03.2026	15:00

Guest lectures

Sr. No.	Name of guest lecture and Designation of	Name of topic	Date	Venue
2022-23				
1.	Recent advances for enhancing fruit production in India	Dr. K. T. Venkataramana, Principal Scientist (H) & Head, Horticultural Research Station, Anantharajupet, Andhra Pradesh	29.12.2022	Seminar Hall
2023-24				
2.	“Grafting in Vegetable Crops"	Dr. Ketan D. Desai, Principal, Horticulture Polytechnic ASPEE, College of Horticulture and Forestry, Navsari Agricultural University, Gujarat	09.06.2023	Seminar Hall
3.	“Use of hydroponics in Horticulture"	Dr. V. S. Patil, Dean (C. Sc.), College of Community Science, UAS, Dharwad, Karnataka	21.06.2023	Seminar Hall
4.	“Tissue culture techniques in Horticultural crops"	Dr. P. Venkatesha Murthy, Professor and Head, Department of Horticulture, University of Agricultural Sciences, GKVK, Banglore	22.06.2023	Seminar Hall
5.	“Dryland Horticulture: An option for enhancing income in dry regions of India"	Dr. B. D. Sharma, Ex. Director, ICAR, CIAH. Bikaner, Rajasthan	11.09.2023	Seminar Hall
6.	“Recent Advances in Horticulture”	Dr. P. K. Nagre, Former Dean, Faculty of Horticulture, Dr. PDKV, Akola on	15.05.2024	Seminar Hall
7.	“Recent Advances in Breeding of Perennial Fruit Crops”	Dr. M. Sankaran, Principal Scientist, ICAR-Indian Institute of Horticultural Research, Bengaluru on	17.05.2024	Seminar Hall
2024-25				
8.	Technological interventions in underutilized fruit crops with reference to climate change.	Dr. G. M. Waghmare, I/c Regional Fruit Research Station, Himayatbag, C. Sambhajinagar.	10/2/2025	Seminar Hall
9.	Exploring potential of underutilized fruit crop through cluster development	Dr. M. M. Kulkarni, Associate Professor, Dr. BSKKV, Dapoli.	15/02/2025	Seminar Hall

10.	Opportunities, issues, and solutions in introducing minor exotic fruits in Indian conditions.	Dr V. D. Kakade, Sr. Scientist, Horticulture, NIASM, Baramati	22/02/2025	Seminar Hall
11.	"Indo-Israel Citrus Production Technology"	Dr. Dr. D. M. Panchbhai, Dean (F/H), Dr. PDKV, Akola	06.05.2025	Seminar Hall
12.	"Off season flowering in fruit crops: An experience of Gujrat"	Dr. N. I. Shah, Principal and Dean, College of Horticulture, Anand Agriculture University, Anand, Gujrat	19.05.2025	Seminar Hall
13.	"Status and scope of onion research in India"	Dr. Vijay Mahajan, Director, Directorate of Onion and Garlic Research Station, Rajgurunagar, Dist. Pune.	22.05.2025	Seminar Hall
2025-26				
14.	"Recent Advances in Fruit Breeding"	Dr. M. Sankaran Principal Scientist, Division of Fruit Crops, ICAR-Indian Institute of Horticultural Research Hessaraghatta Lake Post Bangalore, Karnataka.	10.09.2025	Seminar Hall
15.	"Rejuvenation of an old orchard of mango"	Dr. Sagar J Patil, Professor and Head Department of Horticulture, N. M. College of Agriculture,Navsari Agricultural University Navsari, Gujarat	21.11.2025	Seminar Hall
16.	"Impact of climate change on fruit and vegetable crops"	Dr. A. V. D. Dorajee Rao, Professor, College of Horticulture, Venkatarammannagudem Via: Tadepalligudem, West Godavari District, Andhra Pradesh	25.11.2025	Seminar Hall
17.	"Breeding for biotic stress resistance/tolerance in legume vegetable crops."	Dr. M. Thangam, Principal Scientist (Vegetable Science) ICAR -Indian Institute of Horticultural Research (IIHR) Hesaraghatta Lake Post Bengaluru, Karnataka	27.11.2025	Seminar Hall
18.	"Breeding for biotic stress resistance in chilli."	K. Madhavi Reddy, Former Principal Scientist & Head Division of Vegetable Crops, ICAR-Indian Institute of Horticultural Research Hessaraghatta Lake Post Bangalore, Karnataka.	16.12.2025	Seminar Hall
19.	"Rejuvenation and canopy management in fruits."	Dr. S. K. Shukla Principal Scientist Horticulture, ICAR- Central Institute of Sub-tropical Horticulture, Lucknow, Uttar Pradesh.	24.12.2025	Seminar Hall

20.	Rootstock breeding for biotic and abiotic stresses in fruit crops	Dr. M. Shankar, Principal Scientist, Division of Fruit Crops, IIHR, Bangalore	07.01.2026	Seminar Hall
21.	Biotic and abiotic stress management in papaya through conventional and biotechnological approaches	Dr. C. Vasugi, Professor of Horticulture, GKVK, Bangalore	09.01.2026	Seminar Hall
22.	Management of abiotic stresses in subtropical fruit crops.	Dr. A. K. Trivedi, Principal Scientist Plant Physiology, CISH, Lucknow (UP)	12.01.2026	Seminar Hall
23.	Indo-Israel Citrus Production Technology for abiotic stress management	Dr. D. M. Panchbhai, Dean, F/H, Dr. PDKV, Akola	10.01.2026	Seminar Hall
24.	Abiotic stress management in fruit crops in relation to climate change	Dr. R.G. Somkuwar, Principal Scientist, ICAR-NRC Grape, Pune	19.01.2026	Seminar Hall
25.	Improving abiotic stress tolerance in fruit crops through smart agronomic and genetic interventions	Dr V. D. Kakade, Sr. Scientist, Horticulture, NIASM, Baramati	21.01.2026	Seminar Hall
26.	Intervention of biotic and abiotic stress on reproductive phases in Mango	Dr. G. M. Waghmare, Ex. Head, Department of Horticulture, VNMKV, Parbhani	13.01.2026	Seminar Hall
27.	"Advances in the production and processing technology of underutilized arid fruits"	Dr. M. K. Sharma, Dean College of Agriculture, Kotputali, SKN Agriculture University Jobner, Jaipur Rajasthan.	26.02.2026	Seminar Hall
28.	"Trends and tools to make advances in vegetable breeding"	Dr. Rajashekhar M. Hosamani, Ex. Professor, Department of Horticulture, Agriculture College, UAS, Dharwad, Karnataka	09.02.2026	Seminar Hall
29.	"Organic and natural farming in fruits"	Dr. S. K. Shukla, Principal Scientist Horticulture, ICAR- Central Institute of Sub-tropical Horticulture, Lucknow, Uttar Pradesh	05.03.2026	Seminar Hall
30.	"Genetic improvement in onion and garlic"	Dr. Amar Jeet Gupta, Principal Scientist/ PI (DUS, CRP-HT, TIH & TSP) ICA Directorate of Onion and,Garlic Research, Rajgurunagar, Pune, MS.	12.03.2026	Seminar Hall

31.	"Vegetable seed production under protected condition"	Dr. B. S. Tomar, Head Division of Vegetable Science & School Coordinator (Horticultural Science), ICAR - Indian Agricultural Research Institute, New Delhi	23.03.2026	Seminar Hall
32.	"Hydroponics a promising technique for urban horticulture"	Dr. Vijay Bahadur, Professor and Head Department of Horticulture SHIATS, Allahabad, Utter Pradesh on 23.03.2026	23.03.2026	Seminar Hall
2026-27				
33.	Designing the hidden half: Harnessing Root Traits for Climate-Smart Horticulture	Dr Sat Pal Sharma Head, Department of Vegetable Science, Punjab Agricultural University, Ludhiana, Punjab.	08.07.2026	Seminar Hall
34.	Temperate Fruits in Warmer climates: Success & Constraints	Dr Harminder Singh Prof & Ex Head Deptt of Fruit Science PAU Ludhiana, Punjab.	15.07.26	Seminar Hall
35.	Soilless cultivation of horticultural crops for chemical free quality production of fresh produce	Dr. Vijay Bahadur, Professor and Head Department of Horticulture SHIATS, Allahabad, Gujrat.	17.07.26	Seminar Hall

Research

The research is effectively conducted with wide ranging problems in the major horticultural crops at (i) Main Campus- Instructional-cum-Research Farm, Rahuri, Dist. Ahilyanagar; (ii) Regional Fruit Research Station, Ganeshkhind, Pune; (iii) Onion and Grape Research Station, Pimpalgaon Baswant, (Dist. Nasik); (iv) Banana Research Station, Jalgaon and (v) Fig and Custard Apple Research Station, Jadhavwadi (Pune), (vi) Pomegranate Research and Technology Transfer Centre, Lakhmapur, (Dist: Nasik.) (vii) National Agricultural Research Projects located at Pune, Kolhapur, Solapur, Digraj (Dist. Sangli), Gadhinglaj (Dist. Kolhapur), Mahabaleshwar (Dist. Satara) and Igatpuri (Dist. Nasik).

The research activities are carried out by **seven** centrally funded ICAR, AICRP projects viz. Arid Zone Fruits (Rahuri), Fruits (Rahuri), Banana (Jalgaon), Custard apple and Fig (Jadhavwadi), Vegetables (Rahuri), Potato, GK, Pune); Floriculture (Pune) and **ten State** funded schemes functioning in this department at various locations.

Since, inception of this department had developed/released **one hundred and nine** varieties and hybrids of different fruits (32), vegetables (64), flowers (10), and plantation and spices crops (03). This department has developed **five hundred fifty nine** recommendations on Good Agricultural Practices in fruit, vegetable, flower crops and Post-Harvest Technology of horticultural crops. The Pomegranate, Acid Lime, Onion, Bottle and Bitter gourd, Cucumber and Flower crops varieties are most popular on the farmer's field.

Both the fundamental and applied research is being conducted in this Department through post graduate students, different AICRP centers and state funded schemes as well as with the help of ad-hoc research schemes. There are **seven ICAR** funded **AICRP** schemes and **ten State** funded schemes on vegetable, fruit and flower crops and post-harvest technology are functioning in this department. These are as below.

A. ICAR Schemes

1. AICRP on Arid Zone Fruits, Rahuri
2. AICRP on Fruits, Rahuri
3. AICRP on Vegetables, Rahuri
4. AICRP on Banana, Jalgaon
5. AICRP on Floriculture, NARP, Pune
6. AICRP on Fig and Custard apple, Jadhavwadi, Pune
7. AICRP on Potato, NARP, Ganeshkhind, Pune

B. STATE Schemes

1.	**Tomato Improvement Project, MPKV, Rahuri**
2.	**Scheme for Research on Onion Storage, MPKV, Rahuri**
3.	**Vegetable Improvement Project, Ganeshkhind, Pune**
4.	**Vegetable Improvement Project, MPKV, Rahuri**
5.	**Onion Research Station, Pimpal Baswant, Nashik**
6.	**Turmeric Research Station, Kasbe Digraj, Sangli**
7.	**Pomegranate Research and Technology Transfer Centre, Lakhmapur**
8.	**Regional Fruit Research Station, Ganeshkhind, Pune**
9.	**NARP, Pune , Kolhapur, Solapur and Igatapuri**
10.	**Grape Research Station, Pimpal Baswant, Nashik**
11.	**Bringing Labour on Regular Establishment, MPKV, Rahuri, (BLG)**
12.	**Instructional Farm and Nursery, MPKV, Rahuri (G-1)**
13.	**Mali Training Centre, Ganeshkhind, Pune**

Varieties Developed

Since, inception of this department had developed/released **one hundred and nine** varieties and hybrids of different fruits (32), vegetables (64), flowers (10), plantation and spices crops (03) and **559** agro-techniques of different fruit, vegetable and flower crops, for enhancing productivity and production of horticultural crops.

Sr. No.	Crop	Name of Variety
A. Fruit Crops (32)		
1.	Custard Apple	Phule Purandar, Phule Janaki (HY)
2.	Fig	Phule Rajewadi
3.	Grape	Bhokri, Cheema Sahebi (Recommended)
4.	Guava	Sardar (L-49) (Recommended), Phule Amrut
5.	Kagzi lime	Sai Sharbati, Phule Sharbati
6.	Mango	Sai Sugandh (F1), Phule Abhiruchi
7.	Pomegranate	Ganesh, G-137, P-23, P-26, Mridula, Phule Arakta, Bhagwa , Phule Bhagwa Super, Phule Anardana
8.	Sweet orange	Nucellar Mosambi, Phule Mosambi, Phule Rasika
9.	Banana	Phule Pride
10.	Papaya	Phule Vijaya
11.	Ber	Phule Shabri
12.	Tamarind	Phule Shravani
13.	Jamun	Phule Nilkanth
B. Vegetable crops (64)		
1.	Bitter gourd	Hirkani, Phule Green Gold, Phule Ujwala, Phule Priyanka
2.	Bottle gourd	Samrat, Phule Gaurav, Phule Anmol
3.	Brinjal	Manjari Gota, Vaishali, Pragati, Krishna (F1), Phule Harit, Phule Arjun (F1)
4.	Broccoli	Ganesh Broccoli
5.	Chilli	Phule Jyoti, Agnirekha, Phule Suryamukhi, Phule Sai, Phule Mukta
6.	Cluster bean	Phule Guar
7.	Cucumber	Himangi, Phule Shubhangi
8.	Dolichos bean	Phule Gauri, Phule Ashwini, Phule Suruchi
9.	French bean	Phule Surekha, Phule Suyash

10.	Garlic	Godawari, Sweta, Phule Baswant, Phule Nilima
11.	Lettuce	Phule Padma
12.	Okra	Phule Utkarsha, Phule Vimukta , Phule Gayatri
13.	Onion	N-53, N-2-4-1, N-257-9-1, Baswant-780, Phule Safed, Phule Suvarna, Phule Samarth, Phule Swami
14.	Pea	Phule Priya
15.	Radish	Ganesh synthetic
16.	Ridge gourd	Phule Sucheta, Phule Kiran Phule Karishma
17.	Safflower	Phule Abhilasha
18.	Snake gourd	Phule Vaibhav
19.	Sponge gourd	Phule Prajakta, Phule Komal
20	Tomato	Bhagyashree, Dhanashree, Rajashree (F1), Phule Raja (F1),Phule Kesari, Phule Jayshree,(cherry), Phule Surya
21	Cowpea	Phule Varsha
C. Flower crops (10)		
1.	China aster (4)	Phule Ganesh White, Phule Ganesh Violet, Phule Ganesh Pink, Phule Ganesh Purple
2.	Gladiolus (4)	Phule Ganesh, Phule Neelrekha, Phule Tejas, Phule Prerna
3.	Tuberose (2)	Phule Rajani , Phule Rajat (GK-T-D-1)
D. Plantation & Spices crops (03)		
1	Betelvine (2)	Krishna Pan
2.	Turmeric (1)	Phule Swarupa Phule Haridra

Technologies Developed

Sr. No.	Particulars	Number
1	Fruit crops	**135**
2	Vegetable crops	**122**
3	Flower crops	**30**
4	Postharvest technology of horticultural crops	**68**
5	Silviculture and agro-horti-forestry	**04**
6	Spices, Condiments, Aromatic & Medicinal plants	**07**
7	Vegetable seed production	**03**
8	Plant protection including IPM on horticultural crops	**190**
	Total	**559**

Recommendations on Student's Research

Impact of students Research –New variety/technology developed:

Following number of agro-techniques were developed through Ph. D students and recommended for implementation through Joint Argesco in respective year for beneficial to farmer community. The details as below-

Dr. H. K. Shirsath: Ph. D. Reg. No. 07/25
Recommendation: High density planting in guava

Ultra high density plantation with 2 x 1 m spacing or high density plantation with 3 x 2 m spacing is recommended for guava plantation to obtain early and profitable fruit production during initial period (3.5 years) of orchard management.

Dr. R. V. Patil: Ph. D. Reg. No. 08/47
Recommendation: Onion Set plantation technique

A 'set plantation technique' of onion is recommended for achieving early maturity, higher bulb production and profitability of pre k*harif* onion. For set preparation sowing of onion seeds (20 g/ 6m^2) should be done in second forthnight of January and sets be harvested after 90 days from sowing for getting 1.0 to 2.5 cm diameter set size. The transplanting of stored sets should be done from second forthnight of June for better quality onion production within 70 to 75 DAT. For better marketable yield and storage (3 months) quality one pre- harvest spray of carbendazim @ 10 g + sticker 10 ml /10 lit. of water should be taken at 10 days prior to harvest. The harvested bulbs along with tops should be shade cured for 10 days.

Recommendation: Onion seed production through bulbs produced via set plantation technique

It is recommended to use of 2.5 months stored onion seed–bulbs produced particularly via "Set Plantation Technique" for 15th November planting alongwith application of sugarcane trash (0.5 kg/m^2) at 60 days after planting (an organic mulch) for upscaling of seed production potential particularly of *kharif* onion cultivars in Maharashra State.

Dr. S. B. Jadhav: Ph. D. Reg. No. 2009/74
Recommendation: Rejuvenation of local senile mango orchard

Rejuvenation and improvement of local, senile mango orchards under Western Maharashtra conditions is recommended through Top-working technique, where tree beheading be done at 2 m from ground level during November-December followed by wedge grafting with improved cultivar (e.g. Keshar) during February-March, respectively.

Dr. Dhanaji Mali: Ph. D. Reg. No. 2011/76
Recommendation: Canopy Management in HDP guava

After initial phase of 3.5 years of high density guava plantation (2 x 2m and 3 x 2 m), heading back to the last two season growth in second fortnight of May, is recommended for canopy management and high yield as advancement of technology.

Dr. Ram Kharde: Ph. D. Reg. No. 012/082

Recommendation: Fertigation in Brinjal

The scheduling of alternate day drip irrigation at 70 % crop evapo-transpiration along with fertigation at 80 % recommended dose through water soluble fertilizers at 8 days interval is recommended for maximum yield (490-500 q/ha) of brinjal hybrid. However under limited water conditions, the scheduling of alternate day drip irrigation at 50 % crop evapo-transpiration along with fertigation at 805 recommended dose through water soluble fertilizres at 8 days interval is recommended for optimum yield (380-390 q/ha) of brinjal hybrid.

XI. Recommendation: -

1.Year 2021-22- Nil

2. Year 2022-23 -

1. Grafting of brinjal varieties on Solanum torvum Swartz brinjal rootstock during first fortnight of August is recommended for maximum crop duration, graft success, brinjal fruit yield, monetary returns and less incidence of fusarium wilt.
2. Grafting of Phule Raja tomato hybrid on brinjal rootstock Solanum torvum is recommended for maximum crop duration, better growth, higher graft success, tomato fruit yield and more monetary returns with less incidence of fusarium wilt.

3. Year 2023-24

1. Grafting of Muskmelon on sponge gourd rootstock is recommended for higher graft success, yield, net monetary returns with less incidence of fusarium wilt.
2. Grafting of Phule Raja tomato hybrid on tomato rootstock Solanum pimpinellifolium L. is recommended for higher graft success, better growth, maximum crop duration, net monetary returns with less incidence of fusarium wilt.

4. Year 2024-25 Grafting of Watermelon on sponge gourd rootstock is recommended for higher graft success, yield, net monetary returns with less incidence of fusarium wilt.

5. Year 2025-26 –

1. In muskmelon use of mulching and 1.0 ft. height white color polypropylene crop cover (17 GSM) upto initiation of flowering during summer season is recommended for obtaining higher yield and net monetary return.

2. In watermelon use of mulching and 1.0 ft. height white color polypropylene crop cover (17 GSM) upto initiation of flowering during summer season is recommended for obtaining higher yield and net monetary return.

Research Farm

Modern Instructional-cum-Research Farm of Horticulture is developed on 230 hectare in this department which is under various orchards, research schemes, PG research and germplasm including mother orchard for nursery. The major fruits so for are mango, guava, sapota, pomegranate, citrus, custard apple, ber, aonla and jamun as well as germplasms of these fruit crops on more than 100 hectare on large scale. Also separate post graduate research farm with all facilities are available for students. Post graduate research is also allotted in various research schemes in central campus.

Nursery Unit

The nurseries located at Central Campus, Rahuri, NARP, Pune and at constituent colleges (Pune, Dhule, Kolhapur, Nandurbar, Karad, Halgaon and Kashti Malegaon) to produce genuine planting materials and large number of the same are supplied to farmers throughout the country. Planting material more than 1.80 crores of various fruit crops *viz.* mango, sapota, guava, pomegranate, aonla, acid lime, sweet orange and custard apple etc. are produced and supplied to farmers and nurseries. Every year more than seven lakhs of saplings, layers, grafted plants of major fruit crops are produced and distributing among needy farmers. Nursery unit is supported with modern polyhouses, shade houses along with hardening units with all advanced technology is used for production of genuine planting materials.

NHB Accrediation of Horticulture Nursery (2026)



राष्ट्रीय बागवानी बोर्ड
National Horticulture Board
भूमि एवं विकास कार्यालय संस्थान, भारत सरकार
Ministry of Agriculture & Farmers Welfare, Govt. of India
65, Institutional Area, Sector-18, Gurugram-122015 (Haryana)

NHB/DMD (Nursery)/ NURHHB0011/8/2026-27 | Speed Post 1842 | Date: 04.08.2026

Head (Mob. No.- 7568517967),
Horticulture Farm and Nursery, Department of Horticulture,
HPKV, Rahuri, District – Ahmadnagar, Pin code - 413722 (Maharashtra)

Subject: Rating of your nursery by Assessment Team.

Sir,

At the outset, we appreciate your initiative for inviting Assessment Team for accreditation and rating of your nursery which was conducted on **03.07.2026** under the scheme of National Horticulture Board. After careful examination of various parameters laid down in the guidelines for rating of nurseries, we inform you that the Assessment Team has rated your nursery as **3 Star** for **Mango, Custard Apple, Pomegranate, Acid Lime, Jamun, Sapota & Guava** in the scale of single to three-star rating systems for a period of 2 years from the date of issue as follows: -

Sr. No.	Name of Horticulture Crops	Variety/Cultivars	No. of Mother plants	Production Capacity per annum (No.of grafts etc.)
1	Mango	Kesar	1046	200000
2	Custard Apple	Phule Purandhar	520	50000
3	Pomegranate	Phule Bhagwa Super Bhagwa	2007 427	400000 200000
4	Acid Lime	Phule Sharbati	250	200000
5	Jamun	Konkan Bahadoli	400	20000
6	Sapota	Kalipatti	40	10000
7	Guava	L-49	362	15000

Some suggestions given by the Assessment Team are here under for further improvement of your nursery.

Suggestions: -

1. Success stories may be documented using traceability system information.
2. Overall nursery is well maintained. For the benefit of nurserymen, training programs on awareness on production of quality planting material may be conducted and documented.

Help Desk : 0124-2343614

Horticulture Nursery & Farm
"Three Star Rating"



Mango grafts



Pomegranate grafts

AICRP on Fruits, MPKV, Rahuri centre has received
Second Position for Excellent Performance in the year 2024-25
in the 13th Annual Group Meeting held at GB Pant University of Agriculture & Technology, Pantnagar on 9-12 February, 2026.




All India Coordinated Research Project on Fruits
Indian Council of Agricultural Research

Certificate

Rahuri (MPKV)

AICRP on Vegetable Crops, MPKV, Rahuri centre has received
Best AICRP Centre Award - 2025
in the 44th Annual Group Meeting held at Sri Konda Laxman Telangana Horticultural University, Hyderabad on 20-22 February, 2026.








ICAR-All India Coordinated Research Project
(Vegetable Crops)

44th Annual Group Meeting of AICRP on Vegetable Crops

Best AICRP (Vegetable Crops) Centre Award-2025

Conferred on

Mahatma Phule Krishi Vidyapeeth, Rahuri

28th February, 2026

1. Patent - A Method of Production and Storage of Indian Gooseberry (Aonla) Fruit Pulp



INTELLECTUAL PROPERTY INDIA

क्रम सं/SL No :022155123

सत्यमेव जयते

पेटेंट कार्यालय,भारत सरकार | **The Patent Office, Government Of India**

पेटेंट प्रमाण पत्र | **Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	584153
आवेदन सं. / Application No.	:	201921012982
फाइल करने की तारीख / Date of Filing	:	31/03/2019
पेटेंटी / Patentee	:	Mahatma Phule Krishi Vidyapeeth, Rahuri.

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A METHOD OF PRODUCTION AND STORAGE OF INDIAN GOOSEBERRY (AONLA) FRUIT PULP* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2019 के इकत्तीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *A METHOD OF PRODUCTION AND STORAGE OF INDIAN GOOSEBERRY (AONLA) FRUIT PULP* as disclosed in the above mentioned application for the term of 20 years from the 31st day of March 2019 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 20/03/2026
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2021 के इकत्तीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 31st day of March 2021 and on the same day in every year thereafter.

2. Patent –Ready to Serve Beverage of Aonla (Indian Gooseberry) Fruit and A Method of Production Thereof



क्रम सं/SL No :022156078

INTELLECTUAL PROPERTY INDIA

सत्यमेव जयते

पेटेंट कार्यालय,भारत सरकार
पेटेंट प्रमाण पत्र
(पेटेंट नियमावली का नियम 74)

The Patent Office, Government Of India
Patent Certificate
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	588577
आवेदन सं. / Application No.	:	201921012983
फाइल करने की तारीख / Date of Filing	:	31/03/2019
पेटेंटी / Patentee	:	Mahatma Phule Krishi Vidyapeeth, Rahuri

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *READY TO SERVE BEVERAGE OF AONLA (INDIAN GOOSEBERRY)FRUIT AND A METHOD OF PRODUCTION THEREOF* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2019 के इकतीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *READY TO SERVE BEVERAGE OF AONLA (INDIAN GOOSEBERRY)FRUIT AND A METHOD OF PRODUCTION THEREOF* as disclosed in the above mentioned application for the term of 20 years from the 31st day of March 2019 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 07/05/2026
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2021 के इकतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 31st day of March 2021 and on the same day in every year thereafter.

3. Patent – Tamarind Ready to Serve Beverage and Method of Production There of



INTELLECTUAL PROPERTY INDIA

क्रम सं/Sl. No :022155795

सत्यमेव जयते

पेटेंट कार्यालय,भारत सरकार
पेटेंट प्रमाण पत्र
(पेटेंट नियमावली का नियम 74)

The Patent Office, Government Of India
Patent Certificate
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	587239
आवेदन सं. / Application No.	:	201921012986
फाइल करने की तारीख / Date of Filing	:	31/03/2019
पेटेंटी / Patentee	:	Mahatma Phule Krishi Vidyapeeh(MPKV), Rahuri

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *TAMARIND READY TO SERVE BEVERAGE AND METHOD OF PRODUCTION THEREOF* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2019 के इकतीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *TAMARIND READY TO SERVE BEVERAGE AND METHOD OF PRODUCTION THEREOF* as disclosed in the above mentioned application for the term of 20 years from the 31st day of March 2019 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 20/04/2026
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2021 के इकतीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 31st day of March 2021 and on the same day in every year thereafter.

Seed Production

Seed of various stages of important vegetable crops are also processed by the various schemes. The major share is of onion seed of variety Phule Samarth and Phule Swami is produced as per the demand from farmers. Chilli, cucumber, bottle gourd, bitter gourd and dolichos bean are also very important. Aster, Tuberose and Gladiolus are also popular in farmers in flower crops.

Extension Activities

All the faculties in teaching and research in this department, as per their field of specialization, participate in extension education activities conducted at headquarter, outstations, research stations, KVKs, farmers fields, etc. in collaboration with field functionaries of Government or Non-Government organizations. Technical staff of this department is always busy in solving problems of farmers in horticulture crops and guiding farmers through various farmer rallies and farmers forums.

Participation of students in Seminar and Workshop



Publications

Research papers published by students and scientists during last ten years

Sr. No.	Title of Research paper	Name of journal along with Vol. No., page no. and year	Authors	NAAS rating
	Indian Journal			
	2015			
1.	Storage studies on dehydrated fig (*Ficus carica L.*).	International Journal of Applied Agril. & Hort. Sci. (Green Farming).2015. 6(2): 425-427,	Shelar, S. D., V. P. Kad and H. G. More.	4.38
2.	Effect of Pruning Techniques on Yield and Economics in high density plantation of guava cv. Sardar	Inter. J. Trop. Agri.2015. **33**,(4), October-December	Mali Dhanaji and S. A. Ranpise	3.3
3.	Physicochemical profiling for selection of promising annona genotypes.	Indian journal of Dryland Agric. Res. & Dev. 2015.Vol. 30(1): 89-93	V. S. Saitwal, A. M. Musmade, V. S. Supe, **V. R. Joshi** and C. A. Nimbalkar	2.82
4.	Effect of BAP and NAA on In vitro shoot establishment and proliferation of Banana (Musa paradisiacal) cv. Grand Naine	International Journal of Science and Research. 2015. Vol 4, Issue 5: 318-323	Million Paulos ,**V. R. Joshi** and S. V. Pawar	--
5.	Effect of pruning time and intensities on growth and yield of custard apple (*Annona squamosa* L.) cv. Balanagar.	Research Journal of Agricultural Sciences.2015. Vol.6(4): 864-866	Kalbhor T. P., **V. R. Joshi** and R. A. Durgude	--
6.	Evaluation of some ber genotypes for morphological and Physico-Chemical characters.	Trends in Biosciences.2015. Vol.8(20) 5597-5601	Godi Nissi Flora,**V. R. Joshi** and B. H. Nadkarni	3.59
7.	Effect of sources and levels of sulphur application on growth, yield and quality in Onion.	J. Agric. Res. Technol. 2015, 40 (1) pp. 65-71	Shinde K. G., P. K. Pawar M. N. Bhalekar and B. T. Patil	4.18
8.	Effect of sulphur on yield and quality of onion (*Allium cepa* L) as influenced by applied sulphur levels and sources in inceptiso is of western Maharashtra.	Veg. Sci. 2015,42 (1) : 54-57	Pawar P. K., K. G. Shinde, M. N. Bhalekar and B. T. Patil	4.98
9.	Influence of Taba (Gibbrellic	Pestology2015, 39	Raut V. M. , S.	--

	acid 0.001% L) and chemical fertilizers on yield contribution characters of Onion (*Allium cepa* L.).	(12): pp. 41-49	Kanitkar, K. G. Shinde and M. N. Bhalekar	
10.	Genetic Variability, inter relationship and path analysis in onion (*Allium cepa* L.) genotypes.	Eco. Env. and Cons 2015, 21 (August Suppl.) pp. AS 219-AS 222	B. S. K. Nikhil, A. S. Jadhav, S. G. Bhalekar, M.N. Bhalekar and N. S. Kute	4.89
11.	Genetic studies in F_3 progenies of muskmelon (*Cucumis melo* L.)	Eco. Env. and Cons 2015,21(August Suppl.) pp. AS 219-AS 222	Mali M. D., A. M. Musmade and M. N. Bhalekar	4.89
12.	Evaluation of tomato (*Solanum lycopersicum* L.) genotypes for yield and processing qualities	Bioinfolet 2015 12 (4B): pp. 1006-1010	G. P. Patil, **D. B. Kshirsagar**, S. R. Shinde and V. P. Kad	3.75
		2016		
13.	Effect of plant growth regulators and chemicals on yield of acid lime (*Citrus aurantifolia* Swingle) during *hasta bahar*.	*Journal of Bioinfolet.* (2016): 13 (1B) : 176-178.	Pawar, P. S., Jagtap, D. D. and Patil, D. D.	3.75
14.	Effect of fertigation on yield and quality of sweet orange (*Citrus sinensis* Osbeck) under sub-arid zone of Maharashtra.	*Advances in Life Sciences.* (2016), (17) : 6569-6571.	Dalal, N. R., Pawar, P. S. and Patil, D. D.	3.15
15.	Evaluation of Vegetative and Floral Morphological Characters of Some Ber (*Zizyphusmauritiana*. Lamk) Genotypes	Advances in Life Sciences Vol.5(5) :1919-1925	Nissi. F. Godi,andVinayak. R. Joshi	3.56
16.	Effect of pruning levels and time of pruning on growth, yield and quality parameters of custard apple (*Annona squamosa* L.) under North Maharashtra conditions.	Advances in Life Sciences 5 (20), ISSN 2278-3849, 8593-8594, 2016	P. U. Satpute; A.U. Kedar and B. B. Dhakare	3.56
17.	Effect of cover crops on pollen viability and fruit setting in custard apple (*Annona squamosa* L.) under North Maharashtra conditions.	Advances in Life Sciences 5 (20), ISSN 2278-3849, 8893-8899, 2016	A. U. Kedar, B. B. Dhakare and P. U. Satpute	3.56
18.	Studies on Biochemical and Organoleptic Characters of	Advances in Life ciencesVol.5(6)	Nissi. F. Godi, and Vinayak. R. Joshi	3.56

	Different Ber (*Zizyphus mauritiana*. Lamk) Genotypes.	:2389-2393		
19.	Fertigaiton and irrigation scheduling in Brinjal (*Solanum melongena* L.) cv. Phule Arjun.	Bioinfolet, 2016,13 (1 A): Pp 56-58	Kharade R. P., S. A. Ranpise, M. N. Bhalekar and K. G. Shinde	3.75
20.	Combining ability studies in Brinjal (*Solanum melongena* L.).	Int. J. Tropical Agril. 2016, 34 (2);pp. 403-406	Gharge C. P., S. A. Ranpise, M. N. Bhalekar, K. G. Shinde	3.49
21.	Heterosis for yield in Brinjal (*Solanum melongena* L.)	Int. J. Tropical Agril. 2016,34 (2):pp.407-413	Gharge C. P., S. A. Ranpise, K. G. Shinde, M. N. Bhalekar	3.49
22.	Genetic diversity in cluster bean (*Cymopsis tetragonaloba* L.) for morphological characters.	Bioinfolet,2016,13 (2A): pp. 243-246	Patil B. T., M. N. Bhalekar, K. G. Shinde and V. G. Magar	3.75
23.	Genectic variability and heritability studies in cluster bean (*Cymopsis tetragonaloba* L.).	Bioinfolet 2016 ,13 (2A):pp. 247-250	Patil B. T., M. N. Bhalekar, A. M. Musmade, K. G. Shinde and V.G. Magar	3.75
24.	Genetic studies F3 progenies of Bitter gourd (*Momordica charantia* L.).	Ad. Life Sci. 2016, 5 (21):pp. 9905-9908	Alekar A. N., K. G. Shinde and S. A. Ranpise	3.15
25.	Fertigation and irrigation scheduling studies on cost economics and yield in brinjal (solanum melongena L.) cv. Phule Arjun.	Ad. Life Sci. 2016, 5 (16):pp. 6194-6196	Kharde R. M., S. A. Ranpise, K. G. Shinde	3.15
26.	Effect of organic, inorganic and bio-fertilizers on yield, storage quality and soil nutrient status of onion (*Allium cepa* L.) under vertisols of western Maharashtra.	Veg. Sci. 2016:43 (1) : 91-95	K. G. Shinde, M. N. Bhalekar and B. T. Patil	4.98
27.	ISSR Marker Based Characterization of Major Vegetable Crop Varieties.	J. Agric. Res. Technol. 2016, 41(1) : 30-36	D. N. Damse, M. N. Bhalekar, P. L. Kulwal, A.S.Jadhav, S. G. Bhalekar,and D. B. Kshirsagar	4.18
28.	Effect of Mulching on Growth, Yield, Pest and disease Incidence in summer tomato.	IJTA 2016,Vol. 34, No. 1	Kshirsagar D. B., Shinde S. R., Bhalekar M. N. and Ranpise S. A.	3.03
29.	Genetic Variability, Heritability, Genetic Advance	Advances in Life Sciences 2016, :5	S. D. Gaikwad, M. N. Bhalekar and N. S.	3.56

	and Correlation in F6 Progenies of Muskmelon (*Cucumis melo* L.)	(17) 6919-6923	Kute	
30.	Effect of Integrated nutrient management on growth, yield, quality and nutrient uptake in tomato.	Asian Journal of Sci and Tech. 2016 Vol. 7 (4) 2731-2733	Avhad, A. B., D. B. Shinde, S. R. and Bhalekar M. N.	--
31.	Combining ability studies for earliness and yield in bottle gourd (*Lagenararia Siceraria* Mol. Standl.) in Kharif season.	Asian Journal of Sci and Tech. 2016 Vol. 7 (4) 2846-2849	Sharmila Shinde, Supe V. S., Bhalekar M. N. and Gaikwad S. S.	--
32.	Stability analysis in cherry tomato for quantitative traits	International Res. J.of Multidisciplinary Studies 2016, Vol. 2 Issue 2	Marble S. K., S. A. Ranpise and M. N. Bhalekar	--
33.	Heterosis study in cherry tomato for quantitative traits.	International Research Journal of Multi-disciplinary Studies 2016 2 (2):pp. 01-06	S. K. Marbhal, S. A. Ranpise and D. B. Kshirsagar	--
34.	Effect of mulching on growth, yield, pest and disease incidence in summer tomato.	International Journal of Tropical Agriculture 2016 34 (01): pp. 01-03	Kshirsagar D.B., Shinde S.R., Bhalekar M.N. and Ranpise S.A.	3.03
35.	Effect of integrated nutrient management on growth, yield, quality and nutrient uptake in tomato.	Asian Journal of Science and Technology 2016 07 (04) pp. 2731-2733	Avhad A. B., Kshirsagar D. B., Shinde S. R. and Bhalekar M. N.	--
36.	Effect of water soluble fertilizers on yield and processing qualities in tomato.	Advances in Life Sciences 2016 , 5 (16): pp. 6415-6417	D. B. Kshirsagar, S. A. Ranpie and S. R. Shinde	3.56
37.	Screening of tomato (*Solanum lycopersicum* L.) genotypes under high temperature regime.	Advances in Life Sciences 2016, 5 (21): pp. 9920-9923	S. S. Jamdhade, M. B. Shete, D. B. Kshirsagar and S. R. Shinde	3.56
38.	Use of organic manures in sweet orange (*Citrus sinensis* Osbeck) cv. Mosambi.	*Trends in Biosciences Journal. (2017)* 10 (14): 2483-2486.	Pawar, P. S., Datkhile, R. V. and Bhite, B. R.	3.94
39.	Stability Analysis In Cherry Tomato For Quantitative Traits.	Inter. Res. J. Multi. Disci. Stdy , 2016 : 2(2): 1-5	Marbhal Sunil and S.A.Ranpise	0.679
40.	Heterosis study in cherry tomato.	Inter. Res. J. Multi. Disci. Stdy , 2016 : 2(2): 1-5	Marbhal Sunil and S.A.Ranpise	0.679 I. F.
41.	Combining Ability Studies in	Inter. J. Trop. Agri,	Gharge C. P. and S. A.	3.48

	Brinjal (*Solanum melongena* L.).	2016. 34, **(2)** : 403-406	Ranpise	
42.	Heterosis for Yield in Brinjal (*Solanum melongena* L.).	Inter. J. Trop. Agri, 2016. 34, (2) : 407-4013	Gharge C.P. and S. A.Ranpise	3.48
43.	Fertigation and Irrigation scheduling in cost economics and yield in brinjal cv. Phule Arjun.	Advances in life sciences , 2016, 5(16): 6194-6196	Ahire D.B. and S.A.Ranpise	3.56
44.	Assessment of different rootstocks of pomegranate.	Advances in life sciences, 2016, 5 (19),: 8801- 8806	Ahire D.B. and S. A. Ranpise	3.56
45.	Study of pomegranate propagation using wedge grafting	Advances in life sciences,2016, 5 (19),: 8801- 8806	Ahire D.B. and S. A. Ranpise	3.56
		2017		
46.	Effect of Fertigation & irrigation Scheduling studies in growth and yield of Brinjal cv. Phule Arjun.	International Journal Trend in Bioscience 2017.10(3): 1053-1056	Ahire D. B. and S. A. Ranpise	3.94
47.	Effect of post harvest treatments on quality of pomegranate in zero energy cool chamber and ambient conditions.	Indian Journal of Ecology, 44(1) : 103-107, 2017	Kad, V. P. and J. K. Dhemre	4.96
48.	Standardization of stage wise water requirement in sweet orange (*Citrus sinensis* Osbeck) under western Maharashtra cv. Mosambi.	*Trends in Biosciences Journal.* (2017) 10 (14): 2523-2526.	Pawar, P. S., Bhite, B. R. and Bulbule, S. V.	3.94
49.	Identification of critical stage of water requirement in sweet orange (*Citrus sinensis* Osbeck).	*Journal of Bioinfolet.* (2017)14 (2): 205-208.	Pawar, P. S., Bulbule, S. V. and Dalal, N. R.	3.75
50.	Effect of plant growth regulators and micronutrients on sweet orange (*Citrus sinensis* (L.) Osbeck) cv. Mosambi.	*Journal of Bioinfolet,* (2017)14 (2): 217-221.	Bhite, B. R., Neware, S. D., Pawar, P. S. and Jagtap, D. D.	3.75
51.	Standardization of stage wise requirement of nutrients in sweet orange.	*Trends in Biosciences Journal.* (2017) 10 (27): 5644 -5647.	Bhite, B. R., Pawar, P. S. and Bulbule, S. V.	3.94
52.	Use of organic manures in Sweet orange (*Citrus sinensis* Osbeck) cv. Mosambi.	Trends in Biosciences 10(14): 2483-2486.2017	Pawar P. S. Datkhile R. V. and Bhite B. R.	3.94
53.	Effect of blending of full fat	International Journal	Jadhav, M. S., V. P.	4.38

	and defatted soy flour on preparation of biscuits	of Applied Agril. & Hort.Science (Green Farming), 7(1): 187-190, 2016	Kad and S. D. Shelar	
54.	Effect of different additives for preparation of spray drying pomegranate juice powder	Trends in Biosciences, 10(24): 5205-5207, 2017.	Ingale, V. M., V. P. Kad and S. A. Kharat	3.94
55.	Utilization of solar dryer for drying of cashew kernels.	Environment and Ecology, 35(2): 691-695, 2017.	Kad, V. P., J. K. Dhemre, C. A. Nimbalkar and A. P. Patil	4.18
56.	Performance of packaging on shelf life and quality of fenugreek at different storage conditions in kharif season.	Advances in Research, 10(6) : 1-12, 2017	Dhemre, J. K., M. B. Shete, V. P. Kad and P. M. Kotecha	4.80
57.	Effect of ethylene on physiological changes during ripening of mango (*Mangifera indica* L.) Cv. Kesar.	Indian Journal of Agricultural Research, 51(5) : 437-442, 2017	Kad, V. P., J. K. Dhemre, N. L. Doke, D. G. Kadam and R. V. Patil	4.86
58.	Study on dehydration of cauliflower (*Brassica oleracea* var. botrytis).	International Journal of Chemical Studies, 5(5): 1730-1734, 2017	Kad, V. P., V. M. Ingale and A. P. Patil	5.31
59.	Effect of different levels of ginger juice on physico-chemical and sensory characteristics of herbal ice cream.	Research Journal of Chemical and Environmental Sciences, 5(3) : 45-50, 2017	Jadhav, M. S., C. A. Nimbalkar and V. P. Kad	4.64
60.	Effect of post harvest treatments on quality of pomegranate in zero energy cool chamber and ambient conditions.	Indian Journal of Ecology, 44(1) : 103-107, 2017	Kad, V. P. and J. K. Dhemre	4.96
61.	Studies on packaging and storage of spinach (*Spinacia oleracea*) at different storage conditions in kharif season.	Trends in Biosciences, 10(23): 4756-4762, 2017	Shete, M. B., P. S. Kulkarni, J. K. Dhemre and V. P. Kad	3.94
62.	Modeling of acid lime fruits for predicting the mass by engineering properties	Multilogic in Science, II(XXIII): 233-238,2017	Sonone, V. S., V. P. Kad, P. A. Unde and C. A. Nimbalkar	5.20
63.	Efficacy of Newly Developed Microbial Consortium for Composting of Rural and Urban Wastes	*Int. J. Curr. Microbiol.App. Sci.* Vol. No. 6(6), Page No. 626-633Year.2017	Game B. C., Deokar C. D. and More P. E.	5.38

64.	Effect of agro techniques on pollen viability and fruit set in custard apple (*Annona squamosa L)* cv. Balanagar.	Journal of Pharmacognosy and Phytochemistry, Vol 6(5) 2784-2787	Gulve C. M. and Dr. V. R. Joshi	5.21
65.	Effect of agro techniques on yield and yield contributing characters of custard apple (*Annona squamosa* L) cv.Balanagar.	BIOINFOLET Vol 14 (3) : 282-283	Gulve C. M. , Dr. V. R. Joshi and V. S. Supe	3.75
66.	Status of microflora of Bt and non Bt cotton	Journal of Plant Disease Sciences Sent on Mrch-2017	Ambhore S.N., B. G. Barahate and V. R. Joshi	3.81
67.	Effect of organic sources of plant nutrients on yield, quality and nutrient uptake in onion	Vegetable Science 2017,44 (1) : PP. 128-130	K. G. Shinde, M. N. Bhalekar, P. K. Pawar and B. T. Patil	4.98
68.	Variability, heritability and genetic advance in okra (*Abelmoschus esculentus* L. Monech).	Vegetable Science 2017,44 (1) : 125-127	B.T. Patil, C. B. Bachkar, B. B. Handal and K. G. Shinde	4.98
69.	Effect of Fertigation and Irrigation Scheduling Studies on Growth and Yield of Brinjal (*Solanum melongena* L.) cv. Phule Arjun.	Trends in Biosciences 2017,10 (3) :pp.1053-1056	R. P. Kharde, S. A. Ranpise and M. N. Bhalekar	3.94
70.	Effect of Fertigation and Irrigation scheduling studies on growth and yield of Brinjal (*Solanum melongena* L.)	Trends in Biosciences 2017, 10 (3) pp. 1053-1056	R. P. Kharde, S. A. Ranpise and M. N. Bhalekar	3.94
71.	Effect of micronutrients on growth, yield and quality of sweet orange.	*Contemporary Research in India (*ISSN 2231-2137): (2018) No. 62441. 2: 134-137.	Bhite, B. R., Pawar, P. S. and Jagtap D. D.	3.23

	List of Research Articles- 2018 -2023						
	Title of paper	**Name of the author/s**	**Department of the teacher**	**Name of journal**	**Year of publication**	**ISSN number**	**Link to the recognition in UGC enlistment of the JournalNAAS Rating**
1.	Combining ability studies for earliness and yield in pumpkin (*Cucurbita moschata*) in *Kharif season*	Muthal K.M., M.N. Bhalekar, S.A. Ranpise,	Horticulture	Inter. J. Chemical Studies	2018	2349-8528	5.31
2.	Combining ability studies for earliness and yield in pumpkin (*Cucurbita moschata*) in summer *season*	Muthal K.M., M.N. Bhalekar, S.A. Ranpise,	Horticulture	Inter. J. Chemical Studies	2018	2349-8528	5.31
3.	Effect of nutrient scheduling on fruit retention, yield and quality of pomegranate (*Punica granatum* L.) Cv. Phule Bhagwa Super	Nadkarni B.H., M.N. Bhalekar, V.S. Supe	Horticulture	Inter. J. Chemical Studies	2018	2349-8528	5.31
4.	Effect of nutrient scheduling on fruit retention, yield and quality of pomegranate (*Punica granatum* L.) Cv. Phule Bhagwa Super	Nadkarni B.H., M.N. Bhalekar, V.S. Supe	Horticulture	Inter. J. Chemical Studies	2018	2349-8528	5.31
5.	Effect of salicylic acid on growth and yield of onion (*Allium cepa* L.)	S. B. Nangare, S. D. Gaikwad, S. S. Dighe and M. B. Khamkar	Horticulture	Int. J. Curr. Microbiol. App. Sci.	2018	2319-7706	5.38
6.	Bioefficacy of selected insecticides against tomato fruit borer, *Helicoverpa armigera* (Hubner)	Hivare P.S., B.V. Deore, Y.S. Saindane, S.B. Deore	Horticulture	Inter. J. Chemical Studies	2019	2349-8528	5.31
7.	Effect of different growth retardants on fruit maturity and yield of mango (*Mangifera indica* L.) Cv. Keshar	Mandlik V.S., S.S. Kulkarni and S.P. Pawaskar	Horticulture	Inter. J. Chemical Studies	2019	2349-8528	5.31

8.	Effect of EMS on quantitative characters of chilli in M1 generation	Soyam S.R., A.M. Musmade, M.N. Bhalekar	Horticulture	Inter. J. Chemical Studies	2019	2349-8528	5.31
9.	Effect of gamma rays on quantitative characters of chilli in M1 generation	Soyam S.R., A.M. Musmade, M.N. Bhalekar	Horticulture	Inter. J. Chemical Studies	2019	2349-8528	5.31
10.	Studies on heterosis in ridge gourd (*Luffa acutangula* (L.) Roxb.) in summer season	Malve G.M., M.N. Bhalekar D.B. Kshirsagar	Horticulture	Inter. J. Chemical Studies	2020	2349-8528	5.31
11.	Performance study of f_1 hybrids of tomato (*Solanum lycoperiscum* L.)	Birje P.R., D.B. Kshirsagar and S.R. Shinde	Horticulture	J. Pharmacognosy and Phytochemistry	2020	2349-8528	5.31
12.	Effect of plant growth regulators and micronutrient of growth and fruit setting, fruit retension and yield of tomato (*Solanum lycoperiscum* L.) during summer season	Londe M.B., D.B. Kshirsagar and S.R. Shinde	Horticulture	Multi. In Sci.	2020	2675-1240	5.20
13.	Exploitation of heterosis in bottle gours (*Lagenaria siceraria (*Mol) Standl.) for earliness, yield and yield contributing traits	Sanjivani P Gondane, M.N. Bhalekar and D.B. Kshirsagar Shinde	Horticulture	J. Pharmacognosy and Phytochemistry	2020	2349-8234	5.31
14.	Combing ability for yield and yield contributing characters in tomato (*Solanum lycoperiscum* L.)	Prashant Gaurani, D.B. Kshirsagar and S.R.Shinde	Horticulture	J. Pharmacognosy and Phytochemistry	2020	2349-8234	5.21
15.	Effect of different irrigation and fertigation levels on fruit quality parameters in sweet orange (*Citrus sinensis* L. Osbeck) cv. Phule Mosambi	Hendre P.D., S.A. Ranpise and A.G. Durgude	Horticulture	Inter. J. Chemical Studies	2020	2349-8528	5.31
16.	Effect of different irrigation and fertigation	Hendre P.D., S.A. Ranpise	Horticulture	The Pharma Innovation	2020	2349-8234	5.03

	levels on growth and yield in (*Citrus sinensis* L. Osbeck) cv. Phule Mosambi	and P.S. Pawar		Journal			
17.	Effect of different irrigation and fertigation levels on growth and yield in (*Citrus sinensis* L. Osbeck) cv. Phule Mosambi	Hendre P.D., S.A. Ranpise and P.S. Pawar	Horticulture	J. Pharmacognosy and Phytochemistry	2020	2349-8234	5.21
18.	Effect of nitrogen, phosphorus and potassium fertilization scheduling on soil parameters of custard apple cv. Balanagar	Palepad K.B., V.S. Supe and A.D. Kadlag,	Horticulture	Inter. J. Chemical Studies	2020	2349-8528	5.31
19.	Effect of nitrogen, phosphorus and potassium fertilization on growth of custard apple CV. Balanagar	Palepad K.B., V.S. Supe and A.D. Kadlag,	Horticulture	J. Pharmacognosy and Phytochemistry	2020	2349-8234	5.21
20.	Path analysis studies of Dolichos bean (*Lablab purpureus* L.) genotypes	Thorat A.R., K.G. Shinde and S.A. Ranpise	Horticulture	Inter. J. Chemical Studies	2020	2349-8528	5.31
21.	Graft compatibility between four Brinjal varieties (*Solanum melongena* L.) grafted on rootstock *Solanum torvum* Sw. on different dates	Pawar B.G., M.N. Bhalekar and D.D. Patil	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
22.	Comptibility of brinjal (*Solanum melongena* L.) varieties grafted on *Solanum torvum* Sw. at different dates	Pawar B.G., M.N. Bhalekar and D.B. Kshirsagar	Horticulture	Inter. J. Chemical Studies	2021	2349-8528	5.31
23.	Effect of rootstocks on growth parameters of red globe grapevines (*Vitis vinifera* L.)	Ghule V.S., S.A. Ranpise and R.G. Somkuwar	Horticulture	Inter. J. Chemical Studies	2021	2349-8528	5.31
24.	Studies on Genetic Variability, Heritability, Genetic Advance and Correlation in F4 Generation of Pumpkin (Cucurbita moschata Durch Ex. Poir)	Ingole V.S., M.N. Bhalekar and D.B. Kshirsagar	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23

25.	Influence of cane biochemical content on yield and quality of Red Globe grapevines grafted on different rootstocks	Ghule V.S., S.A. Ranpise and R.G. Somkuwar	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
26.	Genetic studies in F5 generation of muskmelon (*Cucumis melo* L.)	Gaikwad S.D., Chandanshive A.V and M.N. Bhalekar	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
27.	Path coefficient analysis of dolichos bean (*Lablab purpureus* L.) genotypes	Bansod P.N., M.N. Bhalekar and D.B. Kshirsagar	Horticulture	J. Pharmacognosy and Phytochemistry	2021	2349-8234	5.23
28.	Screening of tomato (*Solanum lycoperiscum* L.) hybrids under high temperature regime	Patil N.S., D.B. Kshirsagar and S.R. Shinde	Horticulture	Multi. In Sci	2021	2277-7601	4.51
29.	Estimation of variability, heritability and genetic advance in M3 generation of natural mutant of dolichos bean	Bansod P.N., M.N. Bhalekar and V.R. Joshi	Horticulture	Inter. J. Chemical Studies	2021	2349-8528	5.31
30.	Effect of different irrigation and fertigation levels on yield and nutrient use efficiency in sweet orange (*Citrus sinensis* L. Osbeck) cv. Phule Mosambi	Hendre P.D., S.A. Ranpise and A.G. Durgude	Horticulture	Inter. J. Chemical Studies	2021	2349-8528	5.31
31.	Heterosis for fruit yield and its components traits in Okra (*Abelmoschus esculentus* L. Moench)	Panchal K.N., Bhalekar M.N and Kshirsagar D. B	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
32.	Studies on Genetic Variability, Heritability, Genetic Advance and Correlation in F4 Generation of Pumpkin (*Cucurbita moschata* Duch Ex. Poir)	Ingole V.S., M.N. Bhalekar and D.B. Kshirsagar	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23

33.	Rootstock affects stress relieving enzymatic activity during bud break in Red Globe grapevine under semi-arid condition	R. G. Somkuwar, V. A. Bhor and V. S. Ghule	Horticulture	Vitis 60	2021	0042-7500	7.53
34.	Biochemical characterization of hybrid progenies of mango (*Mangifera indica* L.)	Salma M. Khan, S. A. Ranpise and K. B. Palepad	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
35.	Morphological characterization of hybrid progenies of mango (*Mangifera indica* L.)	Salma M. Khan, S. A. Ranpise and Patil B. T	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
36.	Studies on post harvest handling of pomegranate (*Punica granatum* L.) during transit trials	S. S. Patil, S. A. Ranpise and V. P. Kad	Horticulture	The Pharma Innovation Journal	2021	2349-8234	5.23
37.	Irrigation water management on growth, flowering and yield of drumstick (*Moringa oleifera* Lamk.) cv. Bhagya	N. R. Dalal, M. N. Bhalekar and S. A. Ranpise	Horticulture	J. Pharmacognosy and Phytochemistry	2021	2349-8528	5.21
38.	Effect of pre harvest foliar application of chemical treatments on physical quality of custard apple (*Annona squamosa* L.) Cv. Balanagar	K. D. Mahorkar, V. R. Joshi and S. S. Dighe	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
39.	Studies on effect of pre harvest foliar application of chemical treatments on biochemical	K. D. Mahorkar, V. R. Joshi and S. B. Kharwarde	Horticulture	Scientist	2022	08903670	6.85

	quality of custard apple (*Annona squamosa* L.) Cv. Balanagar						
40.	Genetic studies in bitter gourd (*Momordica charantia* L.)	V. K. Bahiram, V. R. Joshi, M. N. Bhalekar	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
41.	To study the nature of gene action, heritability and correlation among the different characters of bitter gourd (*Momordica charantia* L.)	P. K. Pawar, M. N. Bhalekar	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
42.	Study the effect of nutrient application in split doses on yield chacters under high density planting of mango (*Mangifera indica* L.) cv. Kesar	S. S. Bhosale, B. B. Dhakare, S. B. Jadhav	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
43.	Effect of salicylic acid on growth and yield of late *kharif* Onion (*Allium cepa* L.)	M. B. Khamkar, S. A. Ranpise, S. D. Gaikwad	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
44.	Transgressive segregation in cross 2X7 of F_2 generation of tomato (*Solanum lycopersicum* L.)	S. J. Ramteke, D. B. Kshirsagar, M. N. Bhalekar	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
45.	Studies on effect of storage conditions on physical parameters of pomegranate (*Punica granatum* L.)	S. S. Patil, S.A. Ranpise, B. B. Dhakare	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
46.	Studies on post	S. S. Patil, S.	Horticulture	The Pharma	2022	2277-	5.23

	harvest handling of pomegranate (*Punica granatum* L.) during transit trials	A. Ranpise, V. P. Kad		Innovation Journal		7695	
47.	Variability studies in ridge gourd (*Luffa acutangula* L. Roxb.)	L. B. Thulasiram, S. A. Ranpise, M. N. Bhalekar	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
48.	Graft compatibility among three Muskmelon varieties (*Cucumis Melo* L.) grafted on pumpkin, bottle gourd and sponge gourd in summer season 2022	T. Shirisha, V. R. Joshi, B. B. Dhakare, D. B. Kshirsagar	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
49.	Extension of shelf life of minimally processed of sweet orange (*Citrus sinensis* Osbeck) cv. Phule Mosambi	A. M. Virkar, V. K. Garande	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
50.	Extension of shelf life of minimally processed of sweet orange (*Citrus sinensis* Osbeck) cv. Phule Mosambi	A. M. Virkar, V. K. Garande	Horticulture	The Pharma Innovation Journal	2022	2277-7695	5.23
51.	Post-harvest studies in banana (*Musa paradisiaca* L.) cv. Grand Naine	T. G. Bhadke, V. R. Joshi, V. K. Garande, B. B. Dhakare	Horticulture	The Pharma Innovation Journal	2023	2277-7695	5.23
52.	Graft compatibility among three Muskmelon varieties (*Cucumis Melo* L.) grafted on pumpkin, bottle gourd and sponge gourd in *Kharif* season 2021	T. Shirisha, V. R. Joshi, D. B. Kshirsagar, B. B. Dhakare	Horticulture	Scientist	2023	08903670	6.85

53.	Genotypic and phenotypic variability and correlation studies in Ridge gourd (*Luffa acutangula* L. Ruxb.)	L. B. Thulasiram, S. A. Ranpise, S. A. Anarase, D. B. Kshirsagar	Horticulture	Internationl J. of Plant and Soil Science	2023	2320-7035	5.07

List of Research Articles- 2024					
Sr. No.	**Title of research paper**	**Name of Author**	**Journal**	**NAAS rating / Impact factor / Scopus / h index**	**College /Publisher Name**
1	Evaluation of red pumpkin (*Cucurbita moschata* duch ex. Poir) genotypes for growth, yield and quality	Dahatonde K. N., Kshirsagar D. B., Deshmukh P. P. and S. D. Magar	International Journal of Research in Agronomy	5.20	MPKV, Rahuri
2	Changes in textural properties of sweet orange cv. Phule Mosambi during storage	Rosangpuii Pachuau, V. K. Garande and D. B. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
3	Evaluation of different jamun (*Syzygium cumini* Skeels) genotypes for physical characteristics	R. Soundarya, D. B. Kshirsagar, S. D. Magar, V. P. Kad and R. N. Dongre	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
4	Influence of different rootstocks on vine growth, cane storage and yield in Crimson Seedless Grapevine	Thutte A. S., Dhemre J. K. , Somkuwar R. G., Nikumbhe P. H., Lokhande P. K and Bhalekar M. N.	Journal of Experimental Agriculture International	5.14	MPKV, Rahuri
5	Morphological characterization of different guava genotypes based on leaf and fruit parameters	Gethe A. S. Patil S. D., Magar S. D., Jadhav S. B. and Kshirsagar D. B.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
6	Biochemical characterization of *Rabi*	S. J. Ramteke, B. T. Patil, P. K.	International Journal of	5.29	MPKV, Rahuri

	Onion genotypes (*Allium cepa* L.)	Lokhande and P. N. Sonavane	Advanced Biochemistry Research		
7	Evaluation of F_1 hybrids of Ridge gourd (*Luffa acutangular*, (Roxb. L.) for growth, quality and yield	Imatiyazahamad Teli, Sharmila Shinde, S. A. Anarse, D. D. Patil and Sushravya M. K.	Agriculture Association of Textile Chemical and Critical Reviews Journal	6.78	MPKV, Rahuri
8	Effect of nutrients level on quality parameters of sweet orange under western Maharashtra conditions	P. S. Urade, V. K. Garande, S. D. Magar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
9	Combining ability studies in cucumber (*Cucumis sativus* L.)	Patil N. S., Patil B. T., Kshirsagar D. B., Kshirsagar A. V., Whankate R. A. and Ghatul I. D.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
10	Evaluation of red pumpkin (*Cucurbita moschata* duch ex. Poir) genotypes for growth, yield and quality	Dahatonde K. N., Kshirsagar D. B., Deshmukh P. P. and S. D. Magar	International Journal of Research in Agronomy	5.20	MPKV, Rahuri
11	Relationship between the biochemical and mineral composition of brinjal with the *Leucinodes orbonalis* Guenee	Parul Mehra, M. N. Bhalekar, K. N. Dahatonde	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
12	Morphological characterization of promising genotypes of Mango (*Mangifera indica* L.)	J. R. Attar, S. A. Ranpise, B. B. Dhakare, S. D. Magar, V. R. Awari	International Journal of Research Publication and Reviews		
13	Weed management studies in onion (*Allium cepa* L.) seed crop	V. T. Bhoye, B. T. Patil, K. N. Dahatonde	International Journal of Research in Agronomy	5.20	MPKV, Rahuri
14	Evlauation of different jamun (*Syzygium cumini* Skeels) genotypes for	R. Soundarya, D. B. Kshirsagar, S. D. Magar, V. P. Kad,	International Journal of Advanced	5.29	MPKV, Rahuri

	physical characteristics	R. N. Dongre	Biochemistry Research		
15	Evaluation of Strawberry (*Fragaria x ananassa* Duch.) genotypes under Rahuri conditions	A. A. Kasture, S. D. Magar, A. V. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
16	Effect of nano urea on yield and benefit cost ratio of onion in *Kharif* cv. Phule Samarth	B. Piruthiga, S. R. Shinde, B. T. Patil, A. G. Durgude and K. N. Dahatonde	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
17	Studies on comparative bio efficacy and phytotoxicity of plant growth regulators on chilli (*Capsicum annuum* L.)	I. D. Kinge, S. R. Shinde, D. D. Patil, B. T. Patil, J. K. Dhemre	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
18	Plant growth and yield performance of grapefruit (*Citrus paradisi* Macf.) cultivars	A. M. Kurde, P. S. Pawar, B. T. Patil, J. K. Dhemre, R. V. Kadu	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri

List of Research Articles- 2025					
Sr. No.	**Title of research paper**	**Name of Author**	**Journal**	**NAAS rating / Impact factor / Scopus / h index**	**College /Publisher Name**
1	Storability studies in sweet orange cv. Phule Mosambi	Rosangpuii Pachuau, V. K. Garande, Dr. J. K. Dhemre, P. S. Pawar, Dr. V. P. Kad, Dr. P. K. Lokhande and Dr. D. B. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
2	Evolution of guava genotypes for bio-	Gethe A. S, Patil S. D., Bhusari R.	International Journal of	5.29	MPKV, Rahuri

	chemical, yield, and quality attributes	M. and Magar S. D.	Advanced Biochemistry Research		
3	Manifestation of heterobeltiosis and standard heterosis for yield and yield contributing characters in *Solanum melongena* L.	Parul Mehra, M. N. Bhalekar, A. R. Ather and Dr. D. B. Kshirsagar	Plant Archives	5.59	MPKV, Rahuri
4	Evaluation of elite mandarin (*Citrus reticulata* Blanco) genotypes for growth parameters	Ghatul I. D, Dhemre J. K, Pawar P. S, Magar S. D, and Patil N. S.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
5	Graft compatibility between bottle gourd grafted on rootstocks of bottle gourd and pumpkin	S. Choudhary , Dr. D. B. Kshirsagar, and Dr. K. N. Dahatonde	Plant archives	5.59	MPKV, Rahuri
6	Effect of foliar spray of Potassium Nitrate on growth, flowering and yield of Rejuvenated Custard apple (*Annona squamosa* L.) orchard Cv. Balanagar	R. D. Fule, Dr. J. K. Dhemre,Dr. P. E. More, Dr. S. P. Gaikwad	International Journal of Agriculture and Nutrition	4.69	MPKV, Rahuri
7	Growth and morphology of grape rootstock cuttings in root trainer and polybag	Sivamari T, Dr. S.P. Gaikwad., Dr. R. G. Somkuwar and Dr. J. K. Dhemre	Asian Research Journal of Agriculture	4.86	MPKV, Rahuri
8	Floral and pollination biology of dragon fruit reveals strategies for enhancing productivity through pollination management and reproductive window extension.	Priyanka Jadhav, S. S. Dhumal, K. M. Boraiah.	Scientific Report	9.60	MPKV, Rahuri
9	Quality assessment of different muskmelon	U.D. Pansare, B.B. Dhakare,	International Journal of	5.29	MPKV, Rahuri

	genotypes (*Cucumis melo*) by chemical and organoleptic analysis	K. N. Dahatonde	Advanced Biochemistry Research		
10	Underutilized Frit Crops: Nutritional Profile, Conservation Approaches and Emerging Opportunity wity Reference to Climate Change	R. N. Nale	Agri Articles	4.86	MPKV, Rahuri
11	Manifestation of heterosis for yield and yield contributing traits in Muskmelon *(Cucumis melo* L.*)*	S. M. Mhaske, D.B. Kshirsagar, A.V. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
12	Combining ability and gene action and heritability studies in chilli (*Capsicum annuum* L.)	B. N. Ralebhat, B.T. Patil, D. B. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
13	Leaf area influences photosynthestic activity, yield, quality, and juice recovery in Manjari Medika grape	P. B. Kakade, J. K. Dhemre, R. G. Somkuwar	International Journal of Bio-resource and stress management	5.40	MPKV, Rahuri
14	Effect of foliar spray of sulphate of potash and potassium nitrate on yield and quality of pomegranate Cv. Phule Bhagwa super	N. R. Nikam, S. A. Hiray, J. K. Dhemre	International Journal of Agriculture and Nutrition	4.69	MPKV, Rahuri
15	Weed management studies in onion (*Allium cepa* L.) bulb crop	S. S. Gholave, B. T. Patil, K. N. Dahatonde	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
16	Effect of plant growth regulators, biostimulants and micronutrients on growth, yield and quality of strawberry (*Fragaria x*	Sona. H S, S. D. Magar, D. B. Kshirsagar	Plant Archives	5.59	MPKV, Rahuri

	ananassa Duch.) cv. Winter Dawn under Rahuri conditions.				
17	Role of plant growth regulators in strawberry cultivation: A Review	Sona. H S, S. D. Magar, V. R. Pawar	Plant Archives	5.59	MPKV, Rahuri
18	Effect of propagation media on rooting in pomegranate air layering cv. Bhagwa	R. V. Patil, S. D. Magar, A. V. Kshirsagar	Plant Archives	5.59	MPKV, Rahuri

List of Research Articles- 2026					
Sr. No.	**Title of research paper**	**Name of Author**	**Journal**	**NAAS rating / Impact factor / Scopus / h index**	**College /Publisher Name**
1	Manifestation of Heterobeltiosis and Standard heterosis for yield and yield contributing characters in *Solanum melongena* L.	Parul Mehra, M.N. Bhalekar, A. R. Aher and D. B. Kshirsagar	Plant Archives	5.32	MPKV, Rahuri
2	Morphological characterization of different guava genotypes based on leaf and fruit parameters	Gethe A. S., Patil S. D., Magar S. D., Jadhav S. B. and Kshirsagar D. B.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
3	Evolution of guava genotypes for bio-chemical, yield, and quality attributes	Gethe A. S., Patil S. D., Bhusari R. M. and Magar S. D.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
4	Morphological and biochemical assessment of hybrid progenies in guava	Gethe A. S., Patil S. D., and Magar S. D.	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
5	Variability of Jamun	Rashmi	International	5.29	MPKV,

	(*Syzygium cumini* L. Skeels) fruit genotypes for biochemical attributes	Nandkishor Dongre, CV Pujari, B. M. Bhalerao, Parul Mehra and R. Soundarya	Journal of Advanced Biochemistry Research		Rahuri
6	Evaluation of *Rabi* Onion (*Allium cepa* L.) Genotypes for yield characters	S.J. Ramteke, B.T. Patil, K. N. Dahatonde and S. R. Shinde	Plant Archives	5.32	MPKV, Rahuri
7	Assessing growth and early maturation features in several muskmelon genotypes (*Cucumis melo* L.)	U.D. Pansare, B.B. Dhakre, A.V. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
8	Heterosis study for different growth and yield traits in chilli (*Capsicum annuum* L.)	Bhushan N. Ralebhat, B.T. Patil, D.B. Kshirsagar	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
9	Mean performance of muskmelon hybrids, parents and standard checks for yield and yield contributing traits in summer season	SM Mhaske, DB Kshirsagar, AV Kshirsagar, BT Patil and MR Patil	International Journal of Advanced Biochemistry Research	5.29	MPKV, Rahuri
10	Multivariate analysis of white grape grown under sub-tropical conditions of india	Rutuja Nale SA Ranpise, RG Somkuwr, VK Bhalerao	International Journal of Advanced Biochemistry Research	5.29 /	MPKV, Rahuri
11	Study of heritability parameter in hybrids of okra (*Abelmoschus esculentus* (L.) Monech)	RA Whankate DB Kshirsagar Av Kshirsagar	International Journal of Advanced Biochemistry Research	5.29 /	MPKV, Rahuri
12	Transgressive segregation in cross 3x6 of F2 generation of tomato (*solanum lycopersicum* L.)	SJ Ramteke DB Kshirsagar DD Patil	International Journal of Advanced Biochemistry		MPKV, Rahuri

			Research		
13	Variability and correlation studies in F4 generation of ridge gourd (*Luffa acutangular* L. Roxb.)	SP Deokar BB Dhakare BT Patil DB Kshirsagar	The Pharma Innovation		MPKV, Rahuri
14	Heterosis studies in okra (*Abelmoschus esculentus* (L.) Moench) for yield and yield contributing characters	Whankate RA Kshirsagar DB, Patil BT	The Pharma Innovation		MPKV, Rahuri
15	Variability and correlation studies in F4 generartion of ridge gourd (*Luffa acutangular* L. Roxb.)	SP Deokar BB Dhakare, BT Patil, DB Kshirsagar	The Pharma Innovation		MPKV, Rahuri
16	Genetic studies in F5 generation of ridge gourd (*Luffa acutangular* L. Roxb)	SP Deokar, BB Dhakare, GC Shinde, SA Anarase and MR Patil	International Journal of Advanced Biochemistry Research		MPKV, Rahuri
17	Studies on induction of early flowering in mango cv. Kesar	Kharade S.A. Dhakare B.B., Magar S. D.	Plant Archives		MPKV, Rahuri
18	Role of paclobutrazol in mango	Kharade S.A. Dhakare B.B., Jadhav S. B.	Plant Archives		MPKV, Rahuri
19	Effect of nutrients level on growth of sweet orange under Western Maharashtra conditions	PS Urade VK Garande, SB Jadhav	International Journal of Advanced Biochemistry Research		MPKV, Rahuri
20	Rootstock impact on quality attributes and shelf life of crimson seedless grapes	Thutte AS Somkuwar RG Dhemre JK Gharate PS	International Journal of Advanced Biochemistry Research		MPKV, Rahuri
21	Heterosis for important quantitative traits in cucumber (*Cucumis sativus* L.)	Patil NS Bhalekar MN, Dhakare BB Latke SB	International Journal of Advanced Biochemistry Research		MPKV, Rahuri

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