49th ANNUAL REPORT

2020-21

Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani - 431 402 (Maharashtra)

GLIMPSES

Linseed Day, Oilseeds Research Station, Latur

Linseed Demonstration, Oilseeds Research Station, Latur

Workshop on Increasing Cotton Productivity, at CRS, Nanded - Field Visit

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Dr. Ashok Dhawan
Vice-Chancellor
Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani

PREFACE

I have a great pleasure in presenting 49th Annual Report of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani. The significant contributions of the University in the field of education, research and extension during 2020-21 are presented in concise form.

VNMKV is focusing to enhance the farmer's income through many interventions based on the basic and applied research. VNMKV is functioning in all the eight domain districts of Marathwada region through dissemination of modern technologies. Based on the agro-climatic conditions of the region, available natural resources, farmer's need and focusing the climate vulnerability, the University has developed many new varieties of field crops and horticultural crops with reference to high production potential & quality aspects. New farm implements are also designed. University has signed various MoUs with ICAR institutes for facilitating research facilities of the ICAR institutes for PG and Ph.D. students. Similarly, University also signed MoUs with some manufacturers for commercialization of small farm implements and equipments. The large amount of seed was distributed to the farmers during University Foundation Day i.e. on 18th May.

Education in VNMKV is continuously monitored and reoriented with international collaborations wherever possible to meet the local needs. University is taking efforts to develop self- confidence in the students and innovative thinking to meet the national and global challenges. During the COVID-19 pandemic situation, the online education was provided to students along with technical backup. National Higher Education Project jointly sponsored by ICAR and the World Bank conducted many online training programmes and organized several online National and International conferences / seminars wherein many PG and Ph.D. students participated. Such events were definitely found useful to students particularly in personality development and strengthening the research background.

University is actively involved in the transfer of improved and advanced technologies to farming community through a very effective extension system and demonstrations on farmers' fields were also organized. University organized the online farmers rallies on 18th May, 17th September and 3rd January and crop specific advices were given to the farming community. Though University scientists faced difficulty in reaching to farmers field due to COVID-19 pandemic situation, however, using various digital platforms, various training programmes were organized through online mode for educating farmers regarding various improved technologies

I express my sincere thanks to Government of Maharashtra, Government of India, Indian Council of Agricultural Research, New Delhi and other National / International Funding Agencies for their generous support. I would like to place on record the efforts taken by all my university colleagues without whose tireless efforts, the achievements of Vasantrao Naik Marathwada Krishi Vidyapeeth would not have been possible.

I wish to compliment Dr. D.P. Waskar, Director of Research & his team and Dr. D.B. Deosarkar, Director of Extension Education for bringing out this document in presentable form. I am sure that all our stakeholders would be benefitted by the information given in this annual report.

Ashok S. Dhawan
Vice-Chancellor

Shri. Bhagat Singh Koshyari
Hon. Chancellor & Governor of Maharashtra

Shri. Uddhav Balasaheb Thackeray
Hon. Chief Minister of Maharashtra

Shri. Dadaji Bhuse
Hon. Agril. Minister of Maharashtra

Shri. Vishwajeet Kadam
Hon. Agril. Minister (State) of Maharashtra

Dr. Ashok S. Dhawan
Hon.Vice Chancellor, VNMKV, Parbhani

Executive Council Members 2020-21

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

Sr. No.	Name	Address	
1	Dr. Ashok S. Dhawan	Vice Chancellor, VNMKV, Parbhani	Chairman
2	Shri.Satish Bhanudasrao Chavan	Member of Legislative Council Plot No. 10 Supriya, Jyoti Nagar, Nw Osmanpura, Aurangabad - 431 005	Member
3	Shri. Vinayak Mete	Member of Legislative Council, Tukai Niwas, Tirupati Nagar, Barshi Road, Beed	Member
4	Commissioner (Agriculture)	Commissionerate of Agriculture, Pune	Member
5	Divisional Assistant Commissioner (Animal Husbandry)	Khadkeshwar, Pune	Member
6	Director (Horticulture)	Govt. of Maharashtra, Narvir Tanaji Wadi, Shiwaji Nagar, Pune	Member
7	Chief Conservator	Chief Conservation of Forest, Osmanpura, Aurangabad	Member
8	Divisional Deputy Commissioner (Fisheries)	Office of the Fisheries, Govt. of Maharashtra, Near Collector Office, Aurangabad	Member
9	Divisional Dairy Development Officer	Office of the Divisional Dairy Development Jalna Road Aurangabad	Member
10	Dr. P.G. Patil	Director, ICAR - CIRCOT, Matunga, Mumbai	Member
11	Dr. S.T. Borikar	102, Amogh Building, Saraswati Nagar, Parbhani	Member
12	Sh. Limbajirao Bhosale	Progressive Farmer	Member
13	Sh. Ajay Vijayrao Gavhane	Progressive Farmer	Member
14	Sh. Balajirao Ramrao Desai	Progressive Farmer	Member
15	Sh.Sharad Sakharamji Hiwale	Progressive Farmer	Member
16	Sau. Pavitrabai Satyawan Surwase	Progressive Farmer	Member
17	Dr.Adititai Subhashchandra Sarda	Agricultural Entrepreneur	Member
18	Dr. D.N. Gokhale	Director of Instruction and Dean, VNMKV, Parbhani	Member
19	Dr. D.B. Deosarkar	Director, Extension Education, VNMKV, Parbhani	Member
20	Smt. D.M. Devatraj	Comptroller, VNMKV, Parbhani	Member
21	Shri. Ranjeet Patil	Registrar, VNMKV, Parbhani	Member secretary

Content

INTRODUCTION

Vasantrao Naik Marathwada Krishi Vidyapeeth was established on 18th May, 1972 by the Government of Maharashtra to fulfil the needs of Agricultural education, aspirations of the people of Marathwada region and to cater to the needs of farmers leading to comprehensive agricultural development of eight districts of Marathwada region. This is one of the four Agricultural Universities in the state of Maharashtra.The entire region has rural setting. The objectives of the University include education in agriculture and allied sciences, research based on regional needs and technology transfer.

Marathwada region of Maharashtra state is comprised of 8 districts. The region lies between 170 35' to 200 40' N latitude and 740 40' to 780 16' E longitude. The altitude ranges between 300 to 900 m above mean sea level. The total geographical area of the region is 64.5 lakh ha with 57 lakh ha suitable for agriculture. However, net sown area is only 75 per cent of the total geographical area. The climate of Marathwada experience wide inter district and intra district variability. The region receives annual rainfall in the range of 500 to 1100 mm and comes under assured rainfall zone (60%), moderately high rainfall zone (20%) and scarcity zone (20%). The agricultural production in Marathwada region of Maharashtra State is limited primarily by erratic nature of the monsoon rains. The soils in the region are deep black, medium black, coarse and shallow The major crops grown in the area are cotton, soybean, pigeonpea and sorghum,.

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani imparts education leading to undergraduate and post graduate degree programmes under the faculties of Agriculture, Food Technology, Agricultural Engineering, Community Science, Agricultural Business Management and Agricultural Biotechnology. Agricultural colleges which are located at Parbhani, Latur, Ambajogai, Badnapur, Osmanabad and Golegaon. Agricultural Engineering, Food Technology and Community Science Colleges are located at Parbhani. College of Agricultural Biotechnology is located at Latur while Post Graduate Institute of Agril. Business Management is located at Chakur. The University has extended affiliation to 43 private non granted colleges. As per the Vth Dean's Committee's recommendation, this university has launched six Experiential Learning Projects in Food Processing, Human Development, Dairy Science, Horticulture and Soil Science to provide hands on experiences for developing professionalism in UG students.

Four Krishi Vigyan Kendras located at Aurangabad, Tuljapur, Khamgaon and Badnapur are under the direct control of the University to demonstrate the various improved and advanced agricultural and allied technologies on farmers field for its wide scale adoption. The KVKs also impart training programmes to farmers on various agricultural practices for enhancing the crop productivity and impart knowledge on rainwater conservation and its re-utilization.

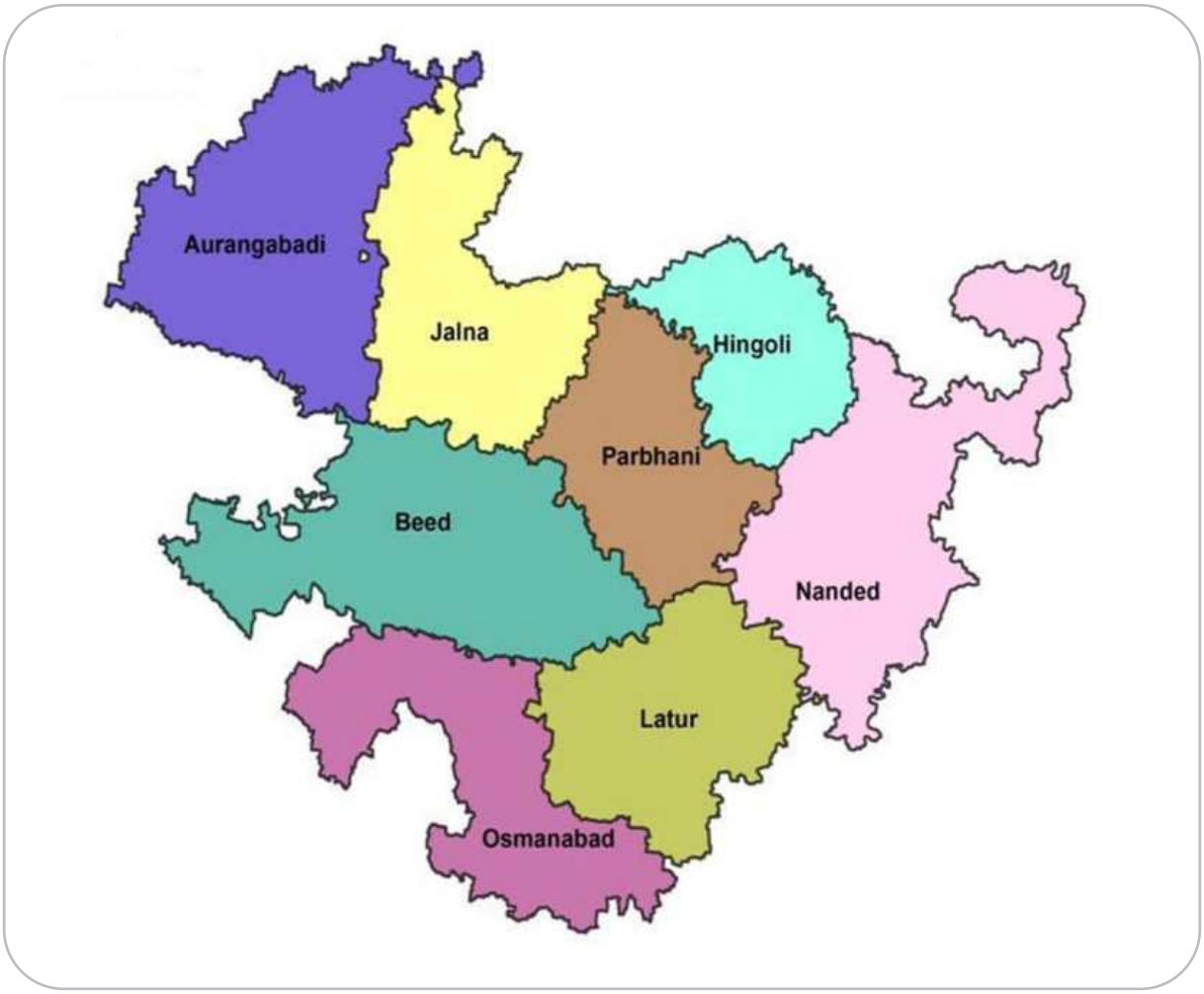
There are 9 constituent and 24 private Agricultural Technical Schools in which two years Marathi medium Agri. Tech. diploma is running. Private non aided 28 Agricultural Polytechnics are running in which three years semi English Diploma in Agricultural Technology is running.

University draws financial support from the State Government, ICAR (Plan and Non- plan) and other funding agencies. The University has entered into MoU with reputed institutes like ICRISAT, Hyderabad; ICAR-NIPHM, Hyderabad, ICAR-CICR, Nagpur; ICAR-IIMR, Hyderabad; ISRO, Bangalore; ICAR-IARI, New Delhi; ICAR-NCIPM, New Delhi; TERI, Mumbai, BARC, Mumbai; ICAR-CRIDA, Hyderabad; ICAR-

National Research Centre on Pomegranate, Solapur, ICAR-Indian Institute of Oilseeds Research, Hyderabad National Research Development Corporation, New Delhi, National Bureau for Plant Genetic Resources, New Delhi, Mahyco, Jalna; Barwale Research Foundation, Hyderabad; CCMB, Hyderabad for funding Post Graduate Research, patenting, bio-technological applications, etc. The university also entered into MoU with Maharashtra State Seed Corporation (MAHABEEJ), Akola for seed production of various crops and its varieties. Similarly, university has signed MoA with some Industries for manufacturing of farm implements which were developed by the University. VNMKV has 3906 ha land being utilized for research, higher and lower education and seed production programmes. The central farm has four major blocks with 1893 ha land.

The VNMKV is a accredited University and placed in 'B' grade. The constituent UG, PG and Ph.D. programmes in various faculties are accredited by Peer Review Team of ICAR New Delhi for next five years.

The 49th Annual Report of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani includes the information on education, research and extension education activities carried out during 1st April, 2020 to 31st March, 2021



Jurisdiction of VNMKV, Parbhani in Maharashtra

EDUCATION

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani is imparting education in the following under graduate and post graduate programmes.

A) Under-graduate Degree Programme

1. B.Sc. (Agri.)
2. B.Sc. (Hort.)
3. B.Sc. (Community Science)
4. B.Sc. (Agril. Bio-Tech.)
5. B.Sc. (Agri.Business Management)
6. B.Tech. (Agril.Engineering)
7. B.Tech. (Food Technology)

B) Post-graduate Degree Programme

1. M.Sc. (Agri)
2. M.Sc. (Hort)
3. M.Sc. (Community Science)
4. M.Sc. (Agril. Bio-Tech.)
5. M.Tech. (Agril. Engineering)
6. M.Tech. (Food Technology)
7. M.BA (Agri.)
8. Ph.D. (Agri.)
9. Ph.D. (Community Science)
10. Ph.D. (Agril. Engineering)
11. Ph.D. (Food Technology)

Under-graduate / Post Graduate degree programme

During the report period, number of students admitted and passed out for various UG and PG/Ph.D. programmes are as under:

Constituent Colleges

Sr. No.	Name of the College	Year of Est.	Studentintake Capacity		
			UG	PG	Ph.D.
1	College of Agriculture, Parbhani	1956	210	134	33
2	College of Agriculture, Latur	1987	94	108	
3	College of Agriculture, Osmanabad	2000	60	-	-
4	College of Agriculture, Ambajogai	2000	60	-	-
5	College of Agriculture, Badnapur	2000	60	36	-
6	College of Agriculture, Golegaon	2012	60	-	-
7	College of Horticulture, Parbhani	1984	40	-	-
8	College of Food Technology, Parbhani	1976	64	15	05
9	College of Agril. Eng g.& Tech . Parbhani	1986	64	08	04
10	College of Community Science, Parbhani	1976	40	12	02
11	Vilasrao Deshmukh College of Agri Biotechnology, Latur	2006	40	08	-
12	Post Graduate Institute of Agri. Business Management, Chakur	2009	-	35	-
		Total	**792**	**356**	**42**

Non Granted Affiliated Colleges (Agriculture)

Sr. No.	Name of the College	Year of Est.	Student intake Capacity
			UG
1	College of Agriculture, Naigaon Bazar, Dist. Nanded	2002-03	60 + 60
2	Aditya College of Agriculture, Beed	2002-03	60 + 60 + 60
3	Dadasaheb Patil College of Agriculture, Dahegaon, Tq. Vaijapur, Dist. Aurangabad	2002-03	60 + 60
4	Rajiv Gandhi College of Agriculture, Parbhani	2002-03	60 + 60

5	Chhatrapti Shahu Phule Ambaedkar College of Agriculture, Asti	2004-05	60 + 60
6	College of Agriculture, Kanchanwadi, Aurangabad	2006-07	60 + 60 + 60
7	College of Agriculture, Kharpudi, Jalna	2008-09	60 + 60
8	College of Agriculture, Dongarshelki tanda, Udgir, Dist. Latur	2008-09	60 + 60
9	College of Agriculture, Nehrunagar Nagalgaon Tq. Khandhar,	2008-09	60 + 60
10	College of Agriculture, Tondapur, Post Waranaga Phata Dist. Hingoli	2008-09	60 + 60
11	College of Agriculture, Georai Tanda, Aurangabad	2008-09	60 + 60
12	Netaji Subhashchandra Bose College of Agriculture, Markhel, Dist. Nanded	2010-11	60 + 60
13	College of Agriculture, Selu, Dist. Parbhani	2010-11	60 + 60
14	College of Agriculture, Pathri, Dist. Parbhani	2010-11	60 + 60
15	College of Agriculture, Khandala, Tq. Vaijapur, Dist. Aurangabad	2010-11	60 + 60
16	Late Ambadasrao Warpudkar College of Agriculture, Warpud, Dist. Parbhani	2012-13	60
17	Mahatma Gandhi Mission College of Agriculture, Gandheli, Aurangabad	2012-13	60 + 60
18	College of Agriculture, Navha, Tq. & Dist. Jalna	2014-15	60
19	KSK College of Agriculture, Rajuri Navgan, Beed	2014-15	60
20	College of Agriculture, Alni Gadhpati, Osmanabad	2015-16	60
21	College of Agriculture, Pathri. Tq. Phulambri. Dist. Aurangabad	2015-16	60
		Total	**2340**

Non Granted Affiliated Colleges (Food Technology)

Sr. No.	Name of the College	Year of Est.	Student intake Capacity UG
1	College of Food Technology, Rajuri Navgan Dist. Beed	2004-05	40 + 40
2	Aditya College of Food Technology, Beed	2004-05	40 + 40
3	Rajiv Gandhi College of Food Technology, Parbhani	2004-05	
4	QEENS College of Food Technology, Aurang abad	2006-07	40 + 40
5	College of Food Technology, Naigaon Dist. Nanded	2008-09	40 + 40
6	Mahatma Gandhi Mission College of Food Technology, Aurangabad	2008-09	40 + 40
7	College of Food Technology, Loni, Tq. Udgir, Dist Latur	2010-11	40 + 40
8	MIT College of Food Technology, Aundha Nagnath, Dist. Hingoli	2012-13	40
9	MIT College of Food Technology, Aurangabad	2014-15	40
10	College of Food Technology, Georai Tanda, Aurangabad	2014-15	40
11	College of Food Technology, Nehru nagar Nagalgaon, Tq. Kandhar, Dist. Nanded	2015-16	40
12	College of Food Technology, Ashti, Dist. Beed	2015-16	40
13	Loknete Gopinathrao Munde College of Food Technology, Lodga, Tq. Ausa Dist. Latur	2015-16	40
		Total	**860**

Non Granted Affiliated Colleges (Agriculture Bio-Technology)

Sr. No.	Name of the College	Year of Est.	Student intake Capacity
			UG
1	Mahatma Gandhi College of Agricultural Bio-Technology, Pokharni, Dist. Nanded	2004-05	40 + 40
2	College of Agricultural Bio -Technology, Gaorai Tanda, Aurangabad	2004-05	40 + 40
3	Mahatma Gandhi Mission College of Agricultural Bio-Technology, Gandheli, Aurangabad	2004-05	40 + 40
4	Aditya College of Agricultural Bio-Technology, Telgaon Road, Beed	2008-09	40 + 40
5	College of Agricultural Bio -Technology, Hatta, Tq. Basmat	2008-09	40 + 40
		Total	**400**

Non Granted Affiliated Colleges (Agriculture Business Management)

Sr. No.	Name of the College	Year of Est.	Student intake Capacity UG
1	Post Graduate Institute of Agricultural Business Management, Latur	2004-05	40 + 40 = 80

Non Granted Affiliated Colleges (Agricultural Engineering & Technology)

Sr. No.	Name of the College	Year of Est.	Student intake Capacity UG
1	Aditya College of Agricultural Engineering & Technology, Beed	2004-05	40 + 40
2	Sir Chhoturam College of Agricultural Engineering & Technology, Lodga, Dist. Latur	2014-15	40 + 40
5	College of Agricultural Engineering & Technology, Nehrunagar, Nagfalgaon, Dist. Nanded	2015-16	40
		Total	**200**

Lower Agricultural Education

There are 9 constituent and 24 private Agricultural Technical Schools in which two years Marathi medium Agri. Tech. diploma is running. Private non aided28 Agricultural Polytechnics are running in which three years semi English Diploma in Agricultural Technology is running. The annual intake of the schools is 3660. The students passed 10th standard are qualified to apply for it. These schools provide trained manpower for gross root work.

Number of candidates admitted and passed out during the year 2020-21

Sr. No.	Course	No. of students admitted	No. of students passed out in diploma/ Certificate Course
1	Agriculture Technical diploma	1451	463
2	Diploma in Agriculture Technology (Polytechnic)	1557	117
3	Mali Training Certificate Course	58	27

Faculty wise number of students completed the degrees during 2020-21

Sr.No.	Course Name	No. of students
Ph.D. Courses		
1	Ph. D. (Agri.)	49
2	Ph. D. (Home Science)	03
3	Ph. D. (Food Tech.)	04
4	Ph. D. (Agril. Engg.)	03
	Total A	**59**
PG Courses		
1	M.Sc. (Agri.)	222
2	M.Sc. (Hort.)	28
3	M.Sc. (Home Science)	02
4	M.Tech. (Food Tech.)	13
5	M.Tech. (Agril. Engg.)	05
6	M.B.A. (Agril.Business Management)	22
7	M.Sc. (Agri. Bio. Tech.)	13
	Total B	**305**
U.G.Courses		
1	B.Sc. (Agri.)	2371
2	B.Sc. (Hort.)	25
3	B.Sc. (Home Science)	30
4	B.Sc. (Agril Bio . Tech.)	346
5	B.Tech. (Food Tech.)	706
6	B.Tech. (Agril.Engg)	228
7	B.B.A. (Agri.)	85
	Total C	**3791**
	Grand Total: A+ B+ C	**4155**

Centre of Excellence on Digital Farming at VNMKV

ICAR, New Delhi sanctioned Centre for Advanced Agricultural Science and Technology (CAAST) on Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGVs under National Agricultural Higher Education Project (NAHEP) to VNMKV, Parbhani sponsored by the World Bank and Govt. of India with a financial outlay of of Rs. 18.00 Crores for this project for a period of 3 years since 2019. Various National and International training programmes were arranged for post graduate and Doctoral students as well as for the faculty of Agriculture and allied sciences during the year 2020-21 in Online mode. Similarly, the National and International Webinars covering various issues of advanced agricultural sciences were organized in online mode due to COVID-19 pandemic situation.

National / International Trainings

Sr. No	Title of event	No. Participants	Duration
1	"Aerial grasping Application for Agriculture Researchers- An Overview by UAV".	72	23/05/2020
2	"Recent Trends in Academic Writing"	424	20/5/2020 to 24/5/2020
3	Recent Advances and Instrumentation in Agriculture Meteorology (CDKS Portfolio)"	457	26/5/2020 to 02/06/2020
4	"Soybean Lagwad Technology Parisanvad With Agriculture Minister"	200	02/06/2020
5	"Application of Remote Sensing & GIS In Digital Agriculture".	450	04/06/2020 to 08 /06/2020
6	"COVID 19 Pandemic: Impact and Strategies in Agriculture Education"	401	09/06/2020 to 13/06/2020
7	Online training program on "Climate resilient technology for Rain fed Agriculture".	452	11/06/2020 to 15/06/2020
8	Present & Futuristic trends in Agriculture mechanization".	424	18/06/2020 to 23 /06/2020
9	Power of Digital manufacturing for new product development- 3D printing".	323	25/06/2020
10	Recent Digital tools in Abiotic Stress Management for crop modelling".	480	29 /06/2020 to 3/07/2020
11	Online short term course on "Application of Digital Technologies in Agriculture"	81	13/07/2020 to 24/07/2020
12	Three weeks online short term course to "Application of digital technologies for smart agriculture"	52	10/08/2020 to 28/08/2020
13	**International Training** on Biotechnology: It's Application in Modern Agriculture	480	04/06/2020 to 08 /06/2020

Trainings

Sr. No.	Title of event	No. of Students participated	Duration
1	Basic Practices Of ANSYS workbench 2020 R2 For Agricultural Researchers (CAD/CAM/CAE Series)	150	20/05/2020 to 24/05/2020
2	"ANSYS 2020 R2 Part-I" for meddling, meshing and stimulation	40	28/12/2020 to 03/12/2020
3	"ANSYS workbench 2020 R2 PART-II for Electromagnetic Analysis	40	11/01/2021 to 13/01/2021
4	"GIS & Remote Sensing Application in Agricultural"	45	20/01/2021 to 25/01/2021

National / International Webinar

1	"Enhancing research writing skills of students and scholars: Citations Management" (FPA Portfolio)	345	08/05/2020
2	"Role of Technologies and Automation in Food Processing and Preservation"	365	14/5/ 2020 to 19/5/ 2020
3	"Digital Agriculture Technologies for self-Reliance of farm woman"	740	6/7/2020 to 10/7/2020
4	State level Weekly Webinar Series ''**सुदृढ पर्यावरणासाठी पीक संरक्षक कृषि रसायनांचा संतुलित वापर**''	150-250 Per event weekly	25/07/2020 to Every Saturday till 03/10/2020
5	State level one week webinar series ''**डिजीटल तंत्रज्ञानाव्दारे कृषी प्रक्रिया उद्योग : उद्योजकांच्या यशोगाथा**''	275	27/07/2020 to 31/07/2020
6	One day webinar on ''**मक्यावरील लष्करी अळी जागरुकता व प्रशिक्षण कार्यक्रमाचे आयोजन**''	175	05/08/2020
7	**International Webinar** on Digital Technologies for smart agricultural: Futuristic plan	155	10/08/2020 to 13/08/2020

Various Activities under National Higher Education Project (NAHEP) on Digital Agriculture

Various Activities under National Higher Education Project (NAHEP) on Digital Agriculture

University Library

The University Library building is situated at center place in University campus. This library provides Library and information services to five colleges and all research centers in the campus. This is the single library to support the entire teaching, research and extension activities under this university and organizing a sound library complex on the main campus and linking it with outside research stations, colleges and lower education, also networking local and national network for information resources. Presently, this library is providing information network and CAB-CD ROM, Agris, FSTA CD ROM, EBSCO's Academic search premier CD-ROM database facility and openj-gate, cera.jccc.in, indiastat.com service for information services.

Reading material

(a)	Books	:	87933
(b)	Back volumes of periodicals	:	17142
(c)	Theses, dissertations	:	9016
	Total collection	**:**	**114091**

Journals

(a)	Journals subscribed	:	15
(b)	Journals on gratis	:	105
	Total journals	**:**	**120**

Library Membership

(a)	Students	:	3654
(b)	Teaching and Other staff	:	536
(c)	Temporary members	:	230
	Total Library Members	**:**	**4420**

e-Resources

Cera e-journals : 3162

J-gate agricultural and biological sciences e journals : 2880

Diva enterprises e-journals : 100

Subscribed e-books : 70

I-scholar e-journals : 17

Total e-journals : 6142

Indiaagristat.com-website providing statistical information

Following Databases are available in the University Library :

CAB-CD ROM (Coverage : 1989-2012)

- It is equivalent of CAB Abstracts, covers all aspects of agriculture, forestry and allied disciplines. The database contains over 4 million bibliographic records with abstracts in English from papers originally published in 74 languages. Eighty per cent of the Agriculture literature is covered by the CD.

AGRIS (Coverage : 1999-2000)

- Covers all aspects of agricultural science and technology with 135 participating countries and 24 regional/international centers, AGRIS is based on the world's most extensive network for the compilation of

bibliographic data. The network is coordinated by the Food and Agriculture Organization (F.A.O.) of the U.N.

Computerized documentation and Information Service:

In the University Library at present, there are three Servers, 21 PCs, Nine printers, three scanners and Commonwealth Agricultural Bureaux CD-ROM database, AgrisCD-ROM database, Food Science and Technology Abstracts CD-ROM database, EBSCO Academic search premier CD-ROM database, Ph.D. Thesis database and JCC and cera.jccc.in, krishiprabha, openj-gate, Indiastat.com databases are available. Indices and Abstracts can be provided on Agriculture and related subjects by these databases. Full text papers are also available in some of the above databases. Researchers are provided documentation and information service by these databases. Subject-wise Indices and Abstracts are provided by printing on printer.

Two 5 KVA UPS and one 10 KVA areavailable for back-up at the time electricity breakup. Training DVDs procured are helpful for students / faculty members.

Apart from this, internet, e-mail, OPAC, document delivery service, prevalent information dissemination service and other network services are made available to library members. For internet, intranet, CD-ROM browsing services are available at free of cost for the all readers. Daily on an average 100 readers use all the above mentioned information services. For computerizing the library services i.e. circulation, cataloguing etc, SLIM-21 software has been purchased and work on the software has been started and connected with all components of RFID

Digital Library Section:

University Librarian has purchased Digital library solution server for creating Digital library and to provide the facility to the users throughout the campus. Digital library section also provides Audio Visual Facility to the library users, university librarian purchased 76 training programme DVD's from national education and information films ltd., Mumbai.

Students' Welfare

The Students Welfare Office is one of the constituent office working under VNMKV, Parbhani with a prime object for overall development of University Students. This office is mainly engaged in overall development of University students and organizing Programmes like Sports meet, Youth festival and National Service Scheme to develop sports skills and platform for talent in cultural and leadership in students.

Gymnasium : For good health of the students, well equipped gymnasium is available in this office. The instruments like single station gym along with 31 machineries and weight lifting instruments are provided in gymnasium hall.

Play Grounds : In University sports complex, outdoor and indoor ground facilities for the students are available for Inter collegiate Sports Meet for students.

Outdoor games facilities : Two basketball courts, one 400 X 10 M running track, 4 play grounds of Volleyball, Kho-Kho and Kabaddi are available in the sports complex.

Indoor games facilities : Two Wooden Badminton courts and 4 Table tennis tables are available.

Youth Festival : For youth festival, cultural hall along with all necessary facilities are available.

Sports Meet Organization : In 2020-21 Inter Collegiate tournaments for various games could not be organized due to COVID-19.

West Zone Inter University Tournament : Inter University Tournament could not be organized due to COVID-19.

National Service Scheme : During 2020-21, 50 units of NSS with strength of 2800 volunteers were allotted to different 50 colleges. The NSS volunteers of different units have done social works and have organized special camp.

Celebration of Jayanti : This office organized different Jayanti Programmes at University level like Chatrapti Shivaji Maharaj on 19th February, 2021 and Dr. Babasaheb Ambedkar Jayanti on 14th April at departmental level following the protocol of Covid-19.

RESEARCH

The following research centers / stations / schemes are functioning in the jurisdiction of Marathwada region for conducting crop oriented research work as per agro-climatic zones.

Sr. No	Name of Research Centre / Scheme	Place	District
1.	Cotton Research Station, Mahboob Baugh Farm	Parbhani	Parbhani
2.	Regional Sugarcane Research Station	Basmatnagar	Hingoli
3.	Agriculture Research Station	Tuljapur	Osmanabad
4.	Bajra Research Station	Vaijapur	Aurangabad
5.	Fruit Research Station, Himayatbagh	Aurangabad	Aurangabad
6.	Agriculture Research Station	Badnapur	Jalna
7.	Cotton Research Station	Nanded	Nanded
8.	Banana Research Station	Nanded	Nanded
9.	Custard Apple Research Station	Ambajogai	Beed
10.	Taluka Seed Farm	Ambajogai	Beed
11.	Oilseeds Research Sub-Station	Ambajogai	Beed
12.	Water Management Research Station	Khamgaon	Beed
13.	Sweet Orange Research Station	Badnapur	Jalna
14.	Agriculture Research Station	Udgir	Latur
15.	Sorghum Research Station	Parbhani	Parbhani
16.	Seed Processing Plant	Parbhani	Parbhani
17.	Oilseeds Research Station	Latur	Latur

Similarly,following 23 All India Coordinated Research Projects are functioning in the University jurisdiction for conducting relevant research works under various crops and resource management

Sr. No	Name of AICRP	Place	District
1.	All India Co-ordinated Sorghum Improvement Project	Parbhani	Parbhani
2.	All India Network Project on Soil Biodiversity-Bio fertilizer (BNF)	Parbhani	Parbhani
3.	AICRP on Water Management	Parbhani	Parbhani
4.	AICRP on Soybean	Parbhani	Parbhani
5.	AICRP on Community Science	Parbhani	Parbhani
6.	AICRP on Long Term Fertilizer Experiment	Parbhani	Parbhani
7.	AICRP on Utilization of Animal Energy with Enhanced System Efficiency (UAE)	Parbhani	Parbhani

8.	AICRP on Arid Legumes	Parbhani	Parbhani
9.	AICRP on Arid Zone Fruits (Custard apple)	Ambajogai	Beed
10.	AICRP on Agricultural Meteorology	Parbhani	Parbhani
11.	AICRP on Oilseeds (Safflower)	Parbhani	Parbhani
12.	AICRP on Dryland Agriculture	Parbhani	Parbhani
13.	AICRP on Chickpea	Badnapur	Jalna
14.	AICRP on Pigeonpea	Badnapur	Jalna
15.	All India Co-ordinated Pearl Millet Improvement Project	Vaijapur	Aurangabad
16.	All India Coordinated Cotton Improvement Project	Nanded	Nanded
17.	AICRP on Sunflower	Latur	Latur
18.	AICRP on Breeder Seed Production	Parbhani	Parbhani
19.	AICRP on Rice	Tuljapur	Tuljapur
20.	AICRP on Integrated Farming Systems	Parbhani	Parbhani
21.	AICRP on MullaRP	Badnapur	Badnapur
22	AICRP on Vegetable Improvement	Parbhani	Parbhani
23	AICRP on Biological Nitrogen Fixation	Parbhani	Parbhani

Climate

The daily rainfall data recorded in each districts were collected for Marathwada region. The data collected were summed up on monthly basis and averaged over district. The onset of SW monsoon was reported during second week of June (11 to 13 June) in all districts of Marathwada. All districts in Marathwada June, July and September month was recorded the more rainfall as compared to normal except Nanded district in June and Latur, Nanded and Osmanabad districts in July month was less. Most parts of region, the sowing rains was recorded during the June and accordingly sowings were undertaken during 15 to 30 June. The seasonal maximum rainfall 972.8 mm in 75 rainy days and the lowest rainfall 613.8 mm in 57 rainy days were recorded in Aurangabad and Osmanabad districts, respectively.

Over all, region recorded 824.6 mm seasonal rainfall in 75 rainy days which was more than normal by 21.5%. The withdrawal of monsoon was noticed during Fourth week of October.

1) **Rainfall :** During the period of June to September 2020 in Marathwada region, 824.6 mm rainfall was recorded and it was more than 21.5 % to the normal. Aurangabad and Osmanabad districts of this region recorded the highest 972.8 mm and lowest 613.8 mm rainfall, respectively.
2) **Temperature :** The highest maximum temperature 43.7 °C was recorded during 21st MW and lowest maximum temperature 27.0 °C in 01st MW whereas highest minimum temperature 25.4 °C was recorded during 22nd MW and lowest minimum temperature 9.0 °C in 49th MW.
3) **Relative Humidity :** The morning and afternoon relative humidity ranged between 44 to 95 and 15 to 79 %, respectively.
4) **Sunshine :** The highest sunshine hours 10.6 hr. was recorded during 21st MW and lowest sunshine hours 0.3 hrs. in 33rd MW, respectively.

5) **Rainfall- 2020 :** The normal and actual rainfall of all 8 domain districts of Marathwada region along with per cent deviation is as below.

Sr.No.	District	Normal Rainfall (mm)	Actual Rainfall (mm)	% Deviation
1	Aurangabad	695.4	1166.5	(+) 67.7
2	Jalna	658.9	1024.2	(+) 55.4
3	Beed	626.2	792.9	(+) 26.6
4	Latur	778.8	858.0	(+)10.2
5	Osmanabad	688.7	749.3	(+) 8.8
6	Nanded	896.2	1017.3	(+)13.4
7	Parbhani	838.2	893.0	(+) 6.5
8	Hingoli	872.9	1064.7	(+) 22.0
Region Avg.		**757.0**	**945.7**	**(+) 24.9**

***Gramin Krishi Mausam Sewa* (GKMS)**

"Gramin Krishi Mausam Sewa (GKMS)" Scheme is working under VNMKV, Parbhani. District Agromet Advisory Bulletin is regularly prepared on every Tuesday and Friday for all eight districts of Marathwada region of Maharashtra.

1. AAS bulletins (103) were prepared for all 08 districts and disseminated to the farmers by direct contact and through mass media communication during the financial year 2020-21.
2. The Agromet Advisory Bulletin is broadcasting daily on all India Radio of Aurangabad, Parbhani, Nanded, Beed and Osmanabad for respective districts.
3. The same Agromet Advisory Bulletins were disseminated to all farmers club through KVK's of Marathwada region.
4. It also sent through SMS on farmers mobile by KVK, Aurangabad, Agril. Met. Center, KVK Kharpudi (Dist. Jalna), KVK Tondapur (Dist. Hingoli).
5. AAB was also made available on IMD WEBSITE (***www.imdagrimet.gov.in***) and on VNMKV, Parbhani Website ***www.mkv2.mah.nic.in*** or ***http://www.vnmkv.ac.in***).
6. AAB is also disseminated to the farmers by Whats app, SMS by mkisan, SMS by Mahindra Kisan and Reliance foundation etc.
7. Total 2,94,601 no. of SMS was send to the farmers during last year.
8. Total 1996 villages are covered for dissemination of AAB.

Research Findings-2020

Dr. Panjabrao Deshmukh Krishi Vidyapeeth,Akola hosted the Joint Agricultural Research Committee Meeting (JOINT AGRESCO) during October 26-31, 2020 in Online mode. The details of crop varieties and implement released along with specific recommendations on production technology, rainwater management, value addition based on research work are given below.

Release of Variety :

1. Pigeonpea BDN 2013-41 (Godavari)

Pigeon pea genotype BDN-2013-41 recorded 32.12 % , 15.64 % , 32.51 % and 22.14 per cents more yield over checks BDN 711, BDN 716, AKT 8811and Rajeshwari, respectively. It matures in 160-165 days , resistant to wilt and sterility mosaic diseases and has high protein con tent. Hence, the Pigeon pea genotype BDN-2013-41 is recommended for *kharif* season in Maharashtra State.

2. Cotton NHH-44 (BG II)

The cotton variety NHH 44 (BG-II) is recommended for Dryland / rainfed region of Maharashtra State.

Implement Released:

1. Solar operated animal/bird scarer cum light insect trap

VNMKV developed Solar operated animal/bird scarer cum light insect trap is recommended for scaring the animals, crop and plant protection and for trapping the insects thus reducing crop infestation and enhancing crop productivity. It has the facility to change the voice at regular time interval thus deterring the animals and birds.

Technologies recommended

1. Post emergence application of Fluazifop-p-butyl 11.1% + Fomesafen 11.1% @ 250 g a.i /ha at 20 to 25 days after sowing or Pre emergence application of Diclosulam 84% @ 26 g a.i/ha & 1 Hoeing 20 to 25 days after sowing is recommended for effective weed control and higher net returns in soybean.
2. Sowing of *Bt* cotton on BBF prepared by tractor along with pre and post emergence application of recommended weedicides and spraying of crop protection chemicals by tractor drawn sprayer is recommended for lower labour requirement, higher yield and net returns.
3. Application of 150:75:75 NPK kg ha^{-1} is recommended for high density planting of *Bt* cotton (90 x 30 cm; plant density 37,037 ha^{-1}) under rainfed condition to increase seed cotton yield, lint yield and monetary returns.
4. For higher curd yield and net monetary returns of summer cabbage, it is recommended to schedule alternate day drip irrigation and 80 % crop evapo-transpiration through inline lateral laid at the centre of raised bed having 2 rows of cabbage planted at spacing of 50 x 45 cm and drip fertigation of 120:60:60 NPK kg/ha with NP and K in 8 equal splits @ 15 Kg N and 7.5 Kg P and K at an interval of 10 days from transplanting to 80 days after transplanting.

Irrigation Water application schedule

Met week	Week after transplantation for irrigation	Water requirement per plant, lit	Operation time for drip set, min	Weekly temperature, °C	
				Max	Min
2	Transplanting to 1st week	0.20	9	29.0	9.5
3	2nd week	0.32	16	30.4	11.4
4	3rd week	0.33	16	30.3	11.8
5	4th week	0.41	18	31.1	10.4
6	5th week	0.67	30	31.4	12.1
7	6th week	0.84	38	32.5	13.7
8	7th week	0.95	42	35.6	14.9
9	8th week	1.00	44	32.4	14.0
10	9th week	1.12	50	35.8	16.0
11	10th week	1.26	56	35.5	17.8
12	11th week	1.30	58	37.9	17.8
13	12th week	1.39	62	40.9	19.5
14	13th week	1.48	66	40.5	20.4
15	14th week	1.54	68	40.6	21.1

Fertilizer application schedule

Duration for fertilizer application	Fertilizer dose (120:60:60 kg/ha, N:P:K			Soluble fertilizers, kg/ha	
	N	P	K	Urea	19:19:19
10 days after transplanting	15	7.5	7.5	16.3	39.5
20 days after transplanting	15	7.5	7.5	16.3	39.5
30 days after transplanting	15	7.5	7.5	16.3	39.5
40 days after transplanting	15	7.5	7.5	16.3	39.5
50 days after transplanting	15	7.5	7.5	16.3	39.5
60 days after transplanting	15	7.5	7.5	16.3	39.5
70 days after transplanting	15	7.5	7.5	16.3	39.5
80 days after transplanting	15	7.5	7.5	16.3	39.5
Total	**120**	**60**	**60**	**130.4**	**316**

5. For higher fruit yield and net monetary returns of *rabi* tomato, it is recommended to schedule alternate day drip at 80 % of crop evapo-transpiration through inline lateral laid at the centre of raised bed having top width of 90 cm and two rows of tomato sown at the spacing of 60 x 30 cm and covered by 30 micron silver black polythene mulch or treatment combinations of irrigation at 0.80 ETc and 30 micron black polythene mulch or 0.60 ETc and 30 micron black polythene mulch.

Met. week	Weeks after transplantation for irrigation	Irrigation per plant, lit	Operation time for drip set, min	Weekly Temp. ^{O}C	
				Max	Min
47	Transplantation to 1st week	0.43	13.50	31.5	14.3
48	2nd week	0.54	17.94	30.6	10.2
49	3rd week	0.86	28.47	30.5	13.5
50	4th week	0.83	27.52	30.3	12.9
51	5th week	0.86	28.42	28.7	8.9
52	6th week	1.15	38.27	26.6	7.2
1	7th week	1.57	52.28	29.7	8.6
2	8th week	1.74	57.78	29.0	9.5
3	9th week	1.84	61.09	30.4	11.4
4	10th week	1.99	66.17	30.3	11.8
5	11th week	1.94	64.47	31.1	10.4
6	12th week	2.14	71.16	31.4	12.1
7	13th week	2.27	75.43	32.5	13.7
8	14th week	2.37	78.56	35.6	14.9
9	15th week	2.41	73.30	32.4	14.0
10	16th week	2.83	93.82	35.8	16.0
11	17th week	2.97	98.44	35.5	17.8
12	18th week	2.76	91.57	37.9	17.8
13	19th week	2.32	77.14	40.9	19.5
14	20th week	2.00	66.52	40.5	20.4

6. In Marathwada region for higher yield, net monetary return and water use efficiency of summer okra, it is recommended to schedule alternate day drip irrigation at 80% of crop evapotranspiration through inline lateral laid at the center of raised bed having top width of 90 cm and two rows of okra sown at the spacing of 60cm x 30 cm and covered by 30 micron silver black polythene mulch

Met. Week	Number of weeks after sowing	Water requirement per plant, lit	Time of operation of drip set	Weekly temp	
				Max.	Min.
9	Sowing to 1st week	0.45	30	32.4	14.0
10	2nd week	0.82	55	35.8	16.0
11	3rd week	0.94	63	35.5	17.8
12	4th week	1.01	67	37.9	17.8
13	5th week	1.41	94	40.9	19.5
14	6th week	1.54	103	40.5	20.4
15	7th week	1.67	111	40.6	21.1
16	8th week	1.61	107	40.9	21.7
17	9th week	1.46	97	41.9	22.5
18	10th week	1.51	100	41.8	24.9
19	11th week	1.55	104	42.2	26.2

Variety and Implements Released

Pigeon Pea : BDN 2013-41 (Godavari)

Cotton - NNH - 44 (BG II)

Solar operated animal/bird scarer cum light insect trap

Technologies Recommended

Bt Cotton sown on BBF with weedicide spraying

Summer okra plantation on broad bed with silver black polylining

Sowing of maize at 70 x 30 cm

Plantation of turmeric (Salem variety)

7. For getting higher grain yield and monetary return, the cultivation of *rabi* maize hybrid with plant spacing 75 x 20 cm^2 (66666 plants / ha) is recommended.
8. It is recommended to undertake the seed treatment of bioagent *Trichoderma harzianum* liquid formulation @ 10ml per kg of seed for effective charcoal rot disease management in *Rabi* sorghum growing area of Maharashtra.
9. It is recommended to undertake spray of the bioagent *Trichoderma harzianum* liquid formulation@ 10ml per liter of water at the time of 80% flowering for effective grain mold disease management in *kharif* sorghum growing area of Maharashtra.
10. It is recommended to undertake the biofertilizer seed treatment of liquid *Acetobacter* and *Azotobacter* @ 10ml each /kg seed before sowing along with application of N, P and K each @ 40 kg/ha to increase grain and stover yield with 50 per cent saving of N in *Kharif* sorghum growing area under dry land conditions of Maharashtra.
11. Estimation of week wise water requirement after planting of *kharif* green chilli, *rabi* tomato and *rabi* cabbage under Parbhani condition VNMKV developed crop coefficients or polynomial equations are recommended.

***Kharif* green chilli**			***Rabi* tomato**			***Rabi* cabbage**		
Met. week	**Week after planting**	**Crop coefficient**	**Met. week**	**Week after planting**	**Crop coefficient**	**Met. Week**	**Week after planting**	**Crop coefficient**
34	0	0.60	41	0	0.60	43	0	0.62
35	1	0.60	42	1	0.62	44	1	0.62
36	2	0.61	43	2	0.62	45	2	0.64
37	3	0.61	44	3	0.62	46	3	0.69
38	4	0.76	45	4	0.73	47	4	0.80
39	5	0.82	46	5	0.79	48	5	0.85
40	6	0.90	47	6	0.85	49	6	0.91
41	7	0.96	48	7	0.92	50	7	0.96
42	8	1.02	49	8	0.99	51	8	1.02
43	9	1.07	50	9	1.06	52	9	1.08
44	10	1.12	51	10	1.13	1	10	1.00
45	11	1.14	52	11	1.19	2	11	1.04
46	12	1.15	1	12	1.21	3	12	1.06
47	13	1.16	2	13	1.26	4	13	1.06
48	14	1.15	3	14	1.30	5	14	1.03
49	15	1.15	4	15	1.32	6	15	0.99
50	16	1.13	5	16	1.33			
51	17	1.11	6	17	1.33			
52	18	1.09	7	18	1.31			
1	18	1.04	8	19	1.29			
2	19	1.03	9	20	1.25			
3	20	1.01	10	21	1.19			
4	21	0.99	11	22	1.11			
5	22	0.96	12	22	1.04			
6	23	0.96	13	23	0.96			

12. VNMKV developed process technology is recommended for the production of osmo-convectively dried 5 mm thick orange slices with-peel having shelf life of 150 days, vacuum packed in Coax pouch. as per given optimized process parameters: Temperature of sugar syrup: 50°C
13. For domestic roof water harvesting system (DRWH) soak pit 2 m in diameter and 2 m depth, construction of 0.10 m thick brick wall and filled in three layers, 0.10 m upper layer of fine aggregates, 0.10m middle layer coarse aggregates and 1.80m bottom layer of 1/3 batt bricks is recommended for increasing ground water recharge.
14. Turmeric seedlings prepared through rhizome cuttings having one eye bud raised in cocopeat is recommended for cost effective cultivation of turmeric.
15. On the basis of earliness, yield, curcumin content and maximum monetary return, Selam variety of turmeric was found highest among the rest of varieties of turmeric, hence,the Selam variety is recommended for cultivation under Marathwada condition.
16. It is recommended that good quality of plain and flavoured aonla fruit balls can be prepared by treating with salt (3%), alum (2%), ginger flavor (1%) and blending whole mature aonla fruits to sugar ratio (1:1) for 12 days and drying at 550c for 5.5 h.
17. It is recommended that the incorporation of 5% guar seed hull in cookies improved dietary fiber.
18. It is recommended that Chocolate flavored milk with addition of 0.4 percent blend of guar and arabic gum improved overall quality attributes be prepared.
19. It is recommended that good quality acceptable probiotic chocolate can be prepared by using 3 per cent bael fruit extract and 10 per cent lactic acid bacteria culture.
20. Amongst investigated verities PVRSG-101 cultivar of tender sweet sorghum was found suitable for hurda making, considering its sensory and high yielding characteristics. Treatment of balancing with 0.2% MgO for 2.5 min, packed in HDPE at 40^0C temperature was found most suitable for storage up to 30 days.
21. It is recommended that a good quality acceptable spice extract incorporated Lime RTS, with maintaining microbial and storage condition can be prepared by adding 10 % lime juice, 0.9 % spice extract, 0.3 % acidity and 120 brix using jaggary.
22. It is recommended that 30% flaxseed can be utilized for good quality, acceptable sesame-flaxseed nutrachikki and 3 months storage at ambient temperature.
23. For the preparation of good quality whole lime- aloe vera spread, the use of lime pulp, lime peel pulp and aloe vera juice in ratio 60:40:40 with 3 g of spices having 680 Brix can be stored up to 3 month at ambient condition is recommended .
24. In Inceptisols of Marathwada region, in order to obtain maximum yields , monetary return from kharif soybean and for the improvement in soil properties application of recommended dose of fertilizer (30: 60:30 kg N,P_20_5 and K_2O/ha) along with tank silt @ 5 t ha-1 + FYM @ 2.5 t ha-1 or tank silt @ 10t ha-1 with RDF is recommended.
25. It is recommended that 20 per cent horse gram flour can be incorporated for increasing protein, total minerals, fiber, calcium, iron and zinc content of Salty Biscuits and Cookies.
26. VNMKV developed dietary fiber rich (28.74 g/100g) ready to use multigrain mix is recommended to include in daily diet of obese women in the form of Upma, Roti and Dhirde for weight reduction.

27. Light weight, wearable plastic Vishram field stool of 120 mm height is recommended for reducing WMSDs (Work related Musculoskeletal Discomfort) of women farmers while performing repetitive farming tasks in squatting /bending posture such as planting, hand weeding and stubble collection.
28. VNMKV developed low cost technology basket is recommended for drudgery mitigation and to increase the work output in women dominating activities in ginger production system.
29. It is recommended that for avoiding adverse effects on child development, families need to keep their children away from excessive use of television and cell phones and instead of it, encourage them to indulge in constructive recreational activities such as outdoor games, reading, music &dance , household work and family care activities. Similarly they should be given adequate time and necessary facilities for it.
30. VNMKV developed designs of shirt DS2 and pant DP2 are recommended to use by arthritic men as their acceptability index was found higher.
31. For eco-friendly, anti-microbial finish on cotton fabric use of two percentAonla leaves extract, taken out in 70% ethanol is recommended .
32. VNMKV Parbhani developed stretchable sari blouse for women use diagonal direction of woven fabric has been recommended .
33. VNMKV Parbhani developed featured face mask of double layered poplin lined with muslin single layered cloth is recommended to use for protection from Covid- 19.
34. It is recommended that wide spread trainings for management of Fall Army Worm through community approach be organized by various extension functionaries.
35. It is recommended to create the awareness among the agro input dealers about insecticide label claims and toxicity label through frequently organize the training particularly before kharif season by extension agencies such KVKs, State Dept of Agriculture etc in the Marathwada region.
36. Long term performance analysis of soybean and safflower on area, production and productivity at disaggregate level showed that soybean productivity is continuously decreasing and moderately instable in Nanded, Parbhani and Hingoli district however area and production of safflower is decreasing in all the districts of Marathwada region, therefore it is recommended that pilot project on oilseeds may designed for Marathwada region to transfer the improved production technology package in addition to critical inputs (Seeds, Biofertilizers, Micronutrients, etc.) at farmers level.
37. Due to adoption of improved production technologies developed by VNMKV, Parbhani, pigeon pea farmers have economically benefitted around 40 per cent through yield enhancement with a net benefit of rupees 14065 per hectare. Therefore, it is recommended that the farmers in Marathwada region to adopt the improved production technologies of Pigeon pea developed by VNMKV, Parbhani.

Technologies Recomended

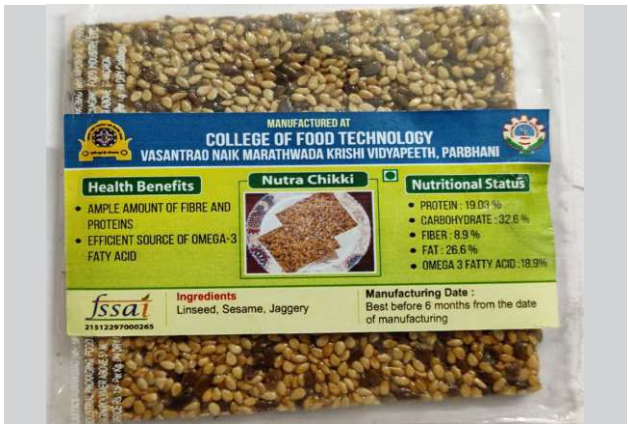
Preparation of Cookies from Guar Gum

Preparation of Chocolate from Bail fruit

Low expensive basket for Ginger production

Technologies Recomended

Process technology for osmo-convectively dried 5 mm thick orange slices with-peel



Preparation of Chikki from Sesame and Linseed

Preparation of Aonla fruit ball

Preparation of Mask from Poplin Cloth

Hurda Storage Technology

Organization of Trainings/ Crop days/ Field Days / Farmers rally

1. Linseed Day: Oilseed Research Station, Latur

Oilseeds Research Station, Latur and ICAR-Indian Institute of Oilseeds Research, Hyderabad jointly organized Jawas Din (Linseed Day) and Farmers Rally on 20th January, 2021 at Latur. The programme was presided over by Dr. Ashok Dhawan, Hon. Vice-Chancellor, VNMKV, Parbhani and Dr. Dattaprasad Waskar, Director of Research was the chief guest. Dr. S.N. Sudhakarbabu, Dr. A.N. Ratnakumar, Scientists, ICAR-IIOR, Hyderabad, Oliseed Specialist, Dr. M.K. Ghodke, Dr. Mutkule, Dr. Dhupe were also present. The field demonstration of linseed crop and exhibition stalls of value added products were also organized. Training was given to women self help groups on linseed cultivation, processing and value addition. In technical session, Dr.D.P. Waskar explained future strategies in Oilseed Research, Dr. S.N. Sudhakarbabu guided on sunflower cultivation, Dr. A.N. Ratnakumar guided on linseed cultivation, Shri Uday Devlankar spoke on linseed value addition and Progressive farmer Shri. Ashok Chinte shared his experiences of linseed cultivation. In this programme, Progressive farmers and members women of Self help groups were felicitated at the hands of Hon. Vice-Chancellor for remarkable work in linseed value added products. Marathi booklet on Linseed cultivation, processing and value addition was released at the hands of dignitaries. In this programme, 100 Spray pumps, Vaibhav sickles, tarpaulins were distributed under Schedled Caste Sub Project to Schedled Caste women and men farmers at the hands of dignitaries. Large number of farmers participated in this programme.

Demonstration of Linseed at Oilseeds Research Station, Latur

2. Sorghum Frontline Demonstration Programme

All India Coordinated Sorghum Improvement Project, Sorghum Research Station, VNMKV, Parbhani organized Sorghum Frontline Demonstration Programme on the field of Shri. Kalyan Lohat from Mandakhali Village, Taluka Parbhani on 18th February, 2021. The programme was presided over by Shri. Murlidhar Lohat, Progressive Farmer and Dr. Dattaprasad Waskar, Director of Research was the chief guest. For this function, Dr. K.R. Kamble, Officer - In-Charge, Dr.U.N. Alse, Extension Agronomist, Dr. L.N. Jawle, Dr. Mohd. Ilyas, Dr. V.M. Gholve, Dr. M.S. Pendke, Dr. G.M. Kote, Shri. Shirish Lohat, Shri. Sachin Shiral, Shri. Sachin Lohat were also present. Dignitories along with farmers visited the demonstration. Large number of farmers participated in this programme.

3. Sorghum Frontline Demonstration Programme

All India Coordinated Sorghum Improvement Project, Sorghum Research Station, VNMKV, Parbhani organized Sorghum Frontline Demonstration Programme on the field of Shri. Ashokrao Mande from Manoli Village, Tq. Manwat Dist. Parbhani on 23rd February, 2021. The programme was presided over by Shri. Rushikesh Mande, Progressive Farmer and Dr. Dattaprasad Waskar, Director of Research, VNMKV, Parbhani was the chief guest. For this function, Dr. K.R. Kamble, Officer InCharge, Dr. L.N. Jawle, Dr. Mohd. Ilyas, Dr. V.M. Gholve, Dr. M.S. Pendke, Shri Aundhekar, Progressive farmers Shri. Madan Maharaj Shinde, Shri. Rambhau Shinde, Shri. Laxman Shinde, Shri. Shaikh Dastgir were also present. Dignitories along with farmers visited the demonstration. Large number of farmers participated in this programme.

4. Workshop on Increasing Cotton Productivity, at CRS, Nanded

Cotton Research Station, Nanded and Department of Agriculture, Nanded jointly organized One Day Workshop on Increasing Cotton Productivity on 26th February, 2021.The inaugural function was presided over by Dr. Ashok Dhawan, Hon. Vice-Chancellor, VNMKV, Parbhani.For this function, Dr. Y. G. Prasad, Director, Central Institute for Cotton Research, Nagpur, Dr. Dattaprasad Waskar, Director of Research, Shri. Vikas Patil, Director Agriculture (Extn. & Trainings), Dr. Khizar Baig, Cotton Specialist, Shri. Pandurang Shigedar, Joint Director Agriculture, Shri. Ravishankar Chalwade, DSAO, Nanded, Dr. Venugopalan, Dr. Balsubramani, Scientists, CICIR, Nagpur were also present. In this workshop, Dr. Khizar Baig, Prof. Arvind Pandagale, Dr. Anand Daunde, Dr. Shivaji Telang, Prof. Dinesh Patil, and Prof. Arun Gaikwad guided the farmers. Under Insecticide Resistance Management and Frontline Demonstration programme, inputs were distributed to the beneficiary farmers at the hands of dignitaries. University scientists, officials from Agriculture Department, farmers were also attended the workshop.

5. Pearlmillet (Bajra Day): Bajra Research Station, Vaijapur

National Agricultural Research Project, Aurangabad, Bajra Research Station, Vaijapur and Department of Agriculture, Aurangabad jointly organized Bajra Mahotsav and Farmers Rally on 6th March, 2021 at Vaijapur. The programme was presided over by Dr. Ashok Dhawan, Hon. Vice-Chancellor, VNMKV, Parbhani and Dr. Dattaprasad Waskar, Director of Research was the chief guest. Shri. Prakash Deshmukh, Sub Divisional Agriculture Officer, Dr. S.B. Pawar, Associate Director Research, Dr. Gajendra Jagtap, Officer-In-Charge, Shri. Nanasaheb Kunde were also present. In this programme, Shri. Nanasaheb Kunde was falicitated for better seed production, Shri. Veer Patil, Hyderabad and Women Self help groups from Aurangabad district were felicitated at the hands of Hon. Vice-Chancellor for remarkable work in millets value added products. The exhibition stalls of millets value added products are also arranged. In technical session, Prof. Dinesh Lomte guided on Bajra cultivation, Dr. Mohan Patil guided on fruit crop plantation, Dr. Gajendra Jagtap guided on Onion cultivation, Shri Prakash Deshmukh informed about various schemes of Agril. Department to the farmers. For this programme, Dr. K.S. Baig, Dr. D.K. Patil, Dr. A. S. Jadhav. Dr. G. K. Londhe, Dr. S.B. Ghuge, Dr. K.R. Kamble, Dr. A.M. Misal, Dr.M.S.Pendke, Dr. Kishor Zade, Shri. Aundhekar were also present. Officials from Agriculture Department, progressive farmers, members of self help groups also attended the programme.

6. Farmers rally on Rainfed Integrated Farming System

AICRP on Dryland Agriculture, VNMKV Parbhani organized a farmers rally on related to Rainfed Integrated Farming System at village Adgaon, Taluka Palam, Dist. Parbhani on March 16, 2021.Dr. D.P. Waskar, Director of Research, VNMKV, Parbhani, Shri. Santosh Alse, District Superintendent Agricultural Officer, Parbhani, Shri Abasaheb Deshmukh, Taluka Agricultural Officer, Palam, Dr.W.N.Narkhede, Chief Scientist and Dr.M.S.Pendke, Agril. Engineer were present for the function. During technical session, the knowledge on cropping pattern, agricultural allied activities water harvesting and recharging techniques were imparted to farming community. All staff of State department of Agriculture and University were present for the function.

7. Cotton production technology workshop and farmers rally at ARS, Badnapur

Agriculture Research Station, Badnapur and ICAR- Central Institute for Cotton Research, Nagpur jointly organized Training programme on Cotton Production Technology and Eradication of Ratoon (Fardad) on 18th March, 2021 at Agriculture Research Station, Badnapur. This programme was precided over by Dr. Dattaprasad Waskar, Director of Research and Dr. Giridhari Waghmare, Associate Dean and Principal, College of Agriculture, Badnapur was chief guest. For this programme, Dr. Sanjeev Bantewad, Dr. Suryakant Pawar, Dr. Khizer Baig, Dr. Sanjay Patil, Dr. Sachin Somwanshi, Shri. Vyankat Thake, Dr. Deepak Patil, Dr.S.K. Patil, Dr. P.S. Ghante, Dr. C.B. Patil were also present. Subject Matter Specialists from Krishi Vigyan Kendras, large number of farmers participated in training programme.

8. Farmers Rally under Scheduled Caste Sub Project – AICRP on Water Management

All India Coordinated Water Management Research Project, VNMKV, Parbhani organized Farmers Rally and Sprinkler Set Distribution Programme under Scheduled Caste Sub Project on 19th March, 2021 at Bhosa village, Ta. Manwat, Dist. Parbhani. The function was presided by Dr. Ashok Dhawan, Hon.Vice Chancellor, VNMKV, Parbhani. For this function, Dr. Dattaprasad Waskar, Director of Research, Shri. Dattarao Jadhav, Member, Panchayat Samitee, Shri. Subhashrao Jadhav, Sarpanch, Shri. Mahadev Jadhav, Upsarpanch, Dr. Ashok Kadale, Principal Scientist, Dr. Gajanan Gadade were present. In this Programme, six sprinkler irrigation sets were distributed to Schedled Caste women and men farmers at the hands of dignitaries. Large number of farmers participated in this programme.

9. Training programme on Oilseeds Production Technology

All India Co-ordinated Research Project on Safflower organized training programme on Oilseeds Production Technology under National Oilseeds Production Mission on 19th March, 2021. This inaugural function was precided over by Dr. Ashok Dhawan, Hon. Vice Chancellor, VNMKV, Parbhani. Dr. Dattaprasad Waskar, Director of Research, Shri. Arun Sonone, Regional Manager, Mahabeej were chief guests for the programme. Marathi booklet on Safflower and Niger Production Technology was released at the hands of dignitaries. In technical session, Dr. S. B. Ghuge, Prof. Pritam Bhutda, Dr. Santosh Pawar, Dr. Rajesh Jadhav guided the participants. Subject matter specialists from Krishi Vigyan Kendras, Extension Agronomists, Mahabeej officials, progressive farmers participated in training programme.

10. Training Programme on Sericulture

Sericulture Research Station, VNMKV, Parbhani organized training programme on Mulbery based Sericulture Industry on 30th March, 2021. This function was precided over Dr. Dattaprasad Waskar, Director of Research and inaugurated at the hands of Shri. Santosh Alse, DSAO, Parbhani. Dr. Sanjeev Bantewad, Head, Dept. of Agril. Entomology, For this programme, Dr. Purushottam Zanwar, Associate Professor, Dr. A.J. Karande, Research Extension Center, Parbhani, Dr. Chandrakant Latpate, Officer In-Charge were also present. Progressive farmers from Parbhani district were participated in training programme.

Memorandum of Understanding (MoU)

1. All India Coordinated Project on Utilization of Animal Energy, VNMKV, Parbhani and M/s. Swami Agro Implements, Lasina Dist. Osmanbad signed Memorandum of Understanding on September 11, 2020for manufacturing &marketing of VNMKV developed implements. For this function, Dr. Ashok Dhawan, Hon. Vice Chancellor, VNMKV, Parbhani, Dr. Dattaprasad Waskar, Director of Research, Shri Ranjeet Patil, Registrar, Dr. Uday Khodke, Associate Dean and Principal, COAET, Parbhani, Scientists Dr. Smita Solanki, Shri. Kumar Shivling Swami, Director, Swami Agro Implements were also present. After signing the MoU, the rights for commercial production of VNMKV developed Bullock drawn Solar Sprayer, Bullock drawn Mulch laying Machine, Bullock drawn Stubble collector, Three tyne Ferti-hoe (with/without furrow opener) were given to M/s. Swami Agro Implements. Dr. Dattaprasad Waskar, Dr. Smita Solanki and Shri. Kumar Shivling Swamisigned Memorandum of Understanding.

2. A Memorandum of Understanding (MoU) was signed between VNMKV and ICAR-National Research Centre on Pomegranate, Solapur on February 06, 2021for facilitating institutional Research, as well as PG and Doctoral students research. Dr. Ashok Dhawan, Hon. Vice Chancellor, Dr.D.P.Waskar, Director of Research, VNMKV, Parbhani, Dr. Jotsana Sharman, Director (Actg.) ICAR-NRCP, Solapur, Dr. A.S.Jadhav, Dy. Director Research, Dr.M.S.Pendke, Research Editor, VNMKV, Parbhani, and scientist & staff of the NRCP were present for the function.

3. A Memorandum of Understanding (MoU) was signed between VNMKV and ICAR-Indian Institute of Oilseeds Research, Hyderabad on March 22, 2021 for facilitating institutional Research, as well as PG and Doctoral students research. Dr. Ashok Dhawan, Hon. Vice Chancellor, Dr. D.P. Waskar, Director of Research, VNMKV, Parbhani, Dr. M.Sujatha, Director (Actg.) ICAR-IIOR, Hyderabad, Dr. M.S. Pendke, Research Editor and Dr.M.K.Ghodke, Oilseeds Specialist, VNMKV, Parbhani, and scientist & staff of the IIOR were present for the function.

4. A Memorandum of Understanding (MoU) was signed between VNMKV and Inventive Solutions, Nasik on March 15, 2021 for Manufacturing of solar equipments. Dr. Ashok Dhawan, Hon. Vice Chancellor, Dr. D.P. Waskar, Director of Research, VNMKV, Parbhani, Dr. U.M. Khodke, Associate Dean & Principal, Dr. Smita Solanki, Research Engineer, Dr. R.T. Ramteke, Head, Dept. of EOES, Prof. D.D. Tekale, and Dr. M.S. Pendke, Research Editor, VNMKV, Parbhani were present for the function.

Seed Production Programme and receipts 2020-21

Sr.No.	Crop	Class of Seed	Quantity (Qtls)	Total (Qtls)
I	**SEED PRODUCTION**			
A	***Kharif***			
1.	Soybean	Breeder	3351.97	5184.16
		Foundation	800.21	
		Truthful	509.49	
		Certified	522.49	
2.	Tur	Breeder	244.30	899.46
		Foundation	295.90	
		Truthful	245.56	
		Certified	113.70	
3.	Mung	Breeder	68.69	110.69
		Foundation	36.20	
		Truthful	5.80	
4.	Udid	Breeder	9.32	9.32
5.	Jowar	Breeder	22.16	70.16
		Truthful	48.00	
6.	Bajra	Breeder	33.02	33.02
	Total *Kharif*			6306.81
B	***Rabi***			
1.	Rabi Sorghum	Breeder	81.00	130.00
		Truthful	40.00	
		foundation	09.00	
2.	Chickpea	Breeder	55.00	113.00
		Truthful	50.00	
		foundation	08.00	
3.	Safflower	Breeder	40.00	203.00
		Truthful	150.00	
		foundation	13.00	
4.	Wheat	Breeder	81.00	141.00
		foundation	60.00	
6	Linseed	Breeder	08.00	53.00
		foundation	09.00	
		Truthful	36.00	
	Total *Rabi*			640.00
	Total (*Kharif* + *Rabi*)			**6946.81**
II	**Total Receipt - Rs. 4,60,19,939/-**			

Planting material developed and sold during 2020-2021- Central Nursary

Sr. No.	Name of the Fruit crop	Number of Grafts/Layer/ Seedlings, sold	Price (Rs.)	Amount (Rs.)
1	Sweet Orange (Nucellar & Katol Gold)	7,372	80/-	5,89,760/-
2	Mandarin (Nagpur Santra)	1,370	80/-	1,09,600/-
3	Sapota (Kalipatti)	2,368	70/-	1,65,760/-
4	Mango var. Kesar and different varieties.	7,992	60/-	4,79,520/-
5	Tamarind (No. 263, Ajinta & Pratishtan)	7,365	60/-	4,41,900/-
6	Jamun (Konkan Bahadoli)	2,793	60/-	1,67,580/-
7	Guava (Sardar & Lalit)	15,527	50/-	7,76,350/-
8	Custard Apple (Balanagar)	7,994	40/-	3,19,760/-
9	Hanumanphal	192	40/-	7,680/-
10	Aonla (NA-7)	905	40/-	36,200/-
11	Kagzi Lime seedlings	5,239	40/-	2,09,560/-
12	Fig (Dinkar)	1,015	35/-	35,525/-
13	Pomegranate (Bhagawa)	285	35/-	9,975/-
14	Seedless Lime	89	30/-	2,670/-
15	Rangpur Lime seedlings	3,326	30/-	99,780/-
16	Tamarind seedlings	209	25/-	5,225/-
17	Jamun seedlings	116	25/-	2,900/-
18	Custard Apple seedlings	07	25/-	175/-
19	Aonla seedlings	281	25/-	7,025/-
20	Kadipatta	356	25/-	8,900/-
21	Karwand seedlings	10,033	15/-	1,50,495/-
22	Other seedlings	4,575	25/-	1,14,375/-
23	Ornamental plants	446	50/-	22,300/-
24	Karwand fruits / Scion Sticks Sale	---	---	1,740/-
25	Private Nursery Sale 1. Sweet Orange	35	150/-	10,325/-
26	Credit Bill Sale	---	---	2,18,930/-
27	Auction (Rangpur fruits)	2,825 kg.	32/ kg. fruits	90,400/-
28	Auction (Sweet Orange fruits)	---	---	52,000/-
29	Auction (Aonla fruits)	---	---	10,500/-
			Total Amount Rs.	**41,46,910/-**

Planting material sold during - Custard Apple Research Centre, Ambajogai

Sr. No.	Name of the Fruit crop	Number of Grafts/Layer/ Seedlings, sold	Price (Rs.)	Amount (Rs.)
1	Custard Apple -Balanagar	20000	40	13,08,520
2	Dharur-6	12713	40	

Product testing details 2020-21

Year	Name of Crop	Name of Research Station	No. of Hybrids/ Varieties for testing
2020-21	Bt. Cotton	Cotton Research Station, Nanded	02
	Vegetable	Horticulture Research Station (Vegetable), Parbhani	66
	Pigeon pea	Agriculture Research Station, Badnapur	09
	Green Gram	Agriculture Research Station, Badnapur	02
	Black Gram	Agriculture Research Station, Badnapur	02
	Chick pea	Agriculture Research Station, Badnapur	06
	Soybean	Soybean Research Scheme, Parbhani	13
	Sorghum	Sorghum Research Station, Parbhani	04
	Sorghum	Agriculture Research Station, Somnathpur	04
	Wheat	Wheat and Maize Research Unit, Parbhani	28
	Maize	National Agriculture Research Project, Aurangabad	58
	Pearl millet	National Agriculture Research Project, Aurangabad	15
	Sunflower	Oil seeds Research Station, Latur	01
		Total	**210**
		Testing fees received (Rs.)	**1,09,61,250/-**
Year	**Name of Crop**	**Name of Research Station**	**No. of Products for testing**
2020-21	Cotton	Cotton Research Station, Nanded	16
	Groundnut	Oil seeds Research Station, Latur	01
	Pigeon pea	Agriculture Research Station, Badnapur	03
	Green gram	Agriculture Research Station, Badnapur	04
	Chick pea	Agriculture Research Station, Badnapur	07
	Soybean	Soybean Research Scheme, Parbhani	02
	Maize	NARP, Aurangabad	02
	Chick pea	Dept. of SSAC, Parbhani	01
	Biofertilizers	Dept. of Plant Pathology, Parbhani	01
	Chilli	Horticulture Research Station (Vegetable), Parbhani	08
	Tomato	Horticulture Research Station (Vegetable), Parbhani	12
	Onion	Horticulture Research Station (Vegetable), Parbhani	01
	Wheat	Wheat and Maize Research Unit, Parbhani	02
	Maize	Wheat and Maize Research Unit, Parbhani	01
		Total	**61**
		Testing fees received (Rs.)	**54,98,150/-**
		Total Testing Fees Receipt (Rs.)	**1,64,59,400/-**

Important Events

Field Visit during Linseed Day, ORS, Latur

Field Visit to Cotton Production Technology at CRS, Naded

Implement Distribution to Tribal Farmers under TSP Programme

Important Events

Visit of Shri. Avinash Poul, Pani Foundation to Borewell Recharge Technology

Visit of Shri. Rajendra Pawar, Chairman, Agricultural Development Trust, Baramati to various activities of the University

EXTENSION EDUCATION

Introduction

Directorate of Extension Education carried out different extension education activities with the help of Regional Agricultural Extension Education Centres (4), Krishi Vigyan Kendras (4), Extension Education Unit and Agricultural Technology Information Centre. Colleges and Research Stations under the university also organized and actively participated in the different extension programmes. The main objective was to disseminate the recent agricultural technologies to the farmers' fields and collect feedbacks.

Regional Agricultural Extension Education Centres (RAEECs) are functioning at Parbhani, Aurangabad, Ambajogai and Latur. Each RAEEC is covering two districts of Marathwada region. Extension Education Unit and Agricultural Technology Information Centre are functioning at university head quarter. ATIC is a single window delivery system for advisory and information services, seeds, planting materials, bio-fertilizers and bio-pesticides, and agricultural publications, etc. Marathwada region has 12 Krishi Vigyan Kendras (KVK). Out of these, 4 Krishi Vigyan Kendra at Aurangabad, Tuljapur Dist. Osmanabad, Khamgaon Dist. Beed and Badnapur Dist. Jalna were established under university, where as remaining 8 KVKs run by the NGOs. These KVKs are aimed to reduce the time lag between generation of technologies and their transfer to the farmers in the larger interest of farmers and increase agricultural production.

These extension centres organized various on-campus and off-campus extension activities viz. monthly district workshops, training programmes, workshops, field visits, diagnostic team visits, farmers rallies, field days, group discussion, farmers-scientist forums, plant protection campaigns, AIR and TV programmes, agril. publications, press publicity, ICT based activities, etc. for benefit of farmers, women, youths, entrepreneurs, officers and extension workers, FPOs and SHGs, etc. Skill Development Training programmes and Vocational trainings were also organized by the KVKs. FLD and OFT were also organized by KVK for assessment and refinement of technologies.

Human life was shut down across the country due to pandemic Covid-19 during the reporting year 2020-21. Whole population was confined at home or isolated to prevent Covid-19 spread. There was a fear, uncertainty, disruption and sense of emergency everywhere. People focused attention on health related and lifesaving activities. All sectors including agriculture, dairy, poultry were badly affected due to pandemic. People were hesitant to buy fruits, vegetables and food items due to Covid 19. Despite of numerous steps and assurances from Government agencies people felt insecure and stressed.

The situation aroused due to pandemic posed limitations on organization of extension activities. However, extension wing of university has developed and implemented Extension and Advisory Service (EAS) strategies to cope with situation and needs of farmers and different clientele groups. University focused on use of internet services, different ICT tools, social, electronic and print media. The Pandemic has compelled us to explore these channels more strongly to remain connected with farming community and other stakeholders.

Credible information, tips and advisories on crop production technologies, handling and marketing of agricultural produce were prepared in written, audio and video format and shared through online media including social media, Facebook, WhatsApp and You tube. Online trainings and webinars were organized by using digital platform of Zoom App, Webex, Google meet, Youtube, Facebook, etc. Messages and advisories were delivered

on farmers WhatsApp groups and *Kisan* portal and through audio conferencing. University was always in convergence with farmers for linking them with markets and promoting farmers producer organizations.
University guided farmers about working in the fields with masks and maintaining social distance to ensure their health. University also continuously counselled and sensitized farmers to reduce anxiety caused by the pandemic COVID19.

In the middle of year, Government lifted restrictions to some extent. During that period extension centres organized number of extension activities in off-line mode by following rules of Covid-19 pandemic.

Achievements

1. Field Visit/Diagnostic Team Visit

University Scientists organized 675 field visits/ diagnostic field visits to the farmers' fields, assess field problems and suggested solution to the field problems of 17400 farmers on the spot during 2020-21.

2 . Farmers' Rally

As a regular activity *Kharif* Farmers' on the eve of 49th University Foundation Day, Rabi Farmers' Rally on the eve of Marathwada *Mukti Sangran Din* and Women Farmers' Rally on the eve of *Kranti Jyoti Savitribai Phule Jayanti* were organized in online mode on Zoom and You Tubeon 18th May, 2020, 17th September, 2020 and 3rd January, 2021 respectively. 9500 farmers, women, entrepreneurs and extension personnel participated in these online rallies.

Regional Extension Centres, Krishi Vigyan Kendras, Colleges and Research Stations also organized 42 online and offline farmers rallies. 12500 farmers, women, entrepreneurs and extension personnel participated in these rallies. University scientists also delivered lectures in the rallies organized by State Department of Agriculture and developmental departments and NGOs.

3. Training programmes

Directorate of Extension Education through its centers organized 285 online and offline short duration training programmes for different clientele groups. 13200 farmers, farmwomen, youths, entrepreneurs, extension functionaries, NGOs, and Self-help Groups members were trained in these training programmes during 2020-21.

4. Monthly District Workshop (MDW)

Monthly District Workshops were organized to provide technical support to extension workers of the State Department of Agriculture. Monthly messages were given to guide the farmers about solution on field problems. Field visits were also organized during these workshops. 80 MDWs were organized and 2750 officers and progressive farmers participated in these workshops during 2020-21.

5. Soybean Workshop

Soybean crop is emerged as major crop in Maharashtra in last two decades. Three days online Soybean workshop was organized during 19th to 21st August,2020. Hon. Shri. Dadaji Bhuse, Hon. Minister for Agriculture, Government of Maharashtra addressed participants in the concluding session on 21st August, 2020. Workshop was inaugurated at the hands Dr. Ashok Dhawan, Vice-Chancellor of the University on 19th August, 2020. 45

high level delegates from University, State Department of Agriculture, Maharashtra State Seed Corporation, Soybean Processing Industries, Marketing, Krishi Vigyan Kendras and Farmers Producing Organization participated in the workshop. Recommendations of the workshop were submitted to the Government of Maharashtra.

6. *Krishi Sanjivani Saptah*

VNMKV celebrated *Krishi Din* on occasion of birth anniversary of Vasantrao Naik on 1st July, 2020. Government of Maharashtra decided to celebrate first week of July 2020 as Krishi Sanjivani Saptah on occasion of birth anniversary of Vasantrao Naik, Former Chief Minister of Maharashtra and Green Revolutionist. VNMKV in coordination with State Department of Agriculture organized different extension programmes in Marathwada during entire week. University scientists visited to the farmers' fields and guided farmer about innovative agricultural technologies. Scientists also diagnosed field problems and suggested remedial measures on the spot. University Colleges, Research Stations, Extension Centres and Krishi Vigyan Kendras took active participation and organized 233 extension programmes during first week of July, 2020.

7. Group Discussion

445 online and offline group discussions were organized for a group of farmers, women farmers, youths, entrepreneurs etc. having common interest in particular aspect of agriculture and allied sciences. 4350 farmers were participated in these group discussions during 2020-21.

8. *Vidyapeeth Apalya Dari, Tantradnyan Shetawari*

Special campaign " Vidyapeeth Apalya Dari, Tantradnyan Shetawari" was implemented with the objective to educate farmers on crop production technologies and to solve the problems of farmers on the spot. Teams of university scientists visited around 150 villages diagnose field problems and suggested remedial measures to 9800 farmers on the spot during reporting year.

9. Plant protection campaign

Plant protection campaign for management Pink Bollworm in Cotton and Fall Army Worm in Maize was implemented during *Kharif* 2020. University scientists organized 140 online programmes and 135 field visits and guided farmers about Pink bollworm management and Fall Army Worm. 12700 farmers got benefit of this campaign.

10. All India Radio & Doordarshan Programme

Interviews and lectures of university scientists were broadcasted through 215 programmes on All India Radio and Regional Radio Stations & 85programmes were telecasted on Doordarshan and private TV channels during 2020-21.

11. Field day

To demonstrate the worthiness of the innovations on agricultural technologies 20 Field Days were organized at the farms of the progressive farmers, trial fields, and demonstration sites. 2100 farmers participated in these field days during 2020-21.

12. Publications

This Directorate has published Krishi Dainandani, University Calendar, ShetiBhati Magazine, Booklets and folders containing information on crop technologies developed by the university. These publications were sold / distributed amongst the farmers, students and extension workers.

13. SMS

SMS facility for the farmers is in operation at ATIC, Parbhani. 50 messages were given on WhatsApp of 5000 farmers. Daily message, advisory and solutions to the field problems was given through Reliance Foundation, Mumbai on smart phone of farmers.

14. Press Publicity

Information on crop production technologies, day to day ongoing programmes and activities were published through leading newspapers of the region. Besides this, bulletins and notes on seminars, trainings, workshops, farmers' rallies, field days, highlight of extension and research projects were formulated and released through newspaper.

15. Telephone Help Line

This Directorate provided technical information to the farmers through Telephone Help Lines. More than 7500 Farmers asked questions on telephone about the cultivation practices of the various crops, pest and diseases control, dry land, fruit & vegetable technologies as well as other income generating enterprises during 2020-21.

16. World Soil Health Day

KVKs and extension centres celebrated World Soil Health Day on 5th December, 2020.Online soil health awareness programmes were organized on this occasion. Weekly online Lecture Series on "Innovative Approaches toward Managing Soil Health for Climate Smart Agriculture" September to December, 2020.

17. Audio Conferencing

ATIC centre of the University in coordination with Reliance Foundation, Mumbai organized 16 multi-location Audio Conferencing programmes for farmers. 1275 farmers from 75 villages participated in these programmes during 2020-21.

18. Webinars

Directorate of Extension Education through its centers organized 214 Webinars on different topics on digital platform of Zoom , Webex, Google meet, Youtube and Facebook, etc. for different clientele groups. 32545 farmers, farmwomen, youths, entrepreneurs, extension functionaries, NGOs, and Self-help Groups members were participated in these webinars during 2020-21.

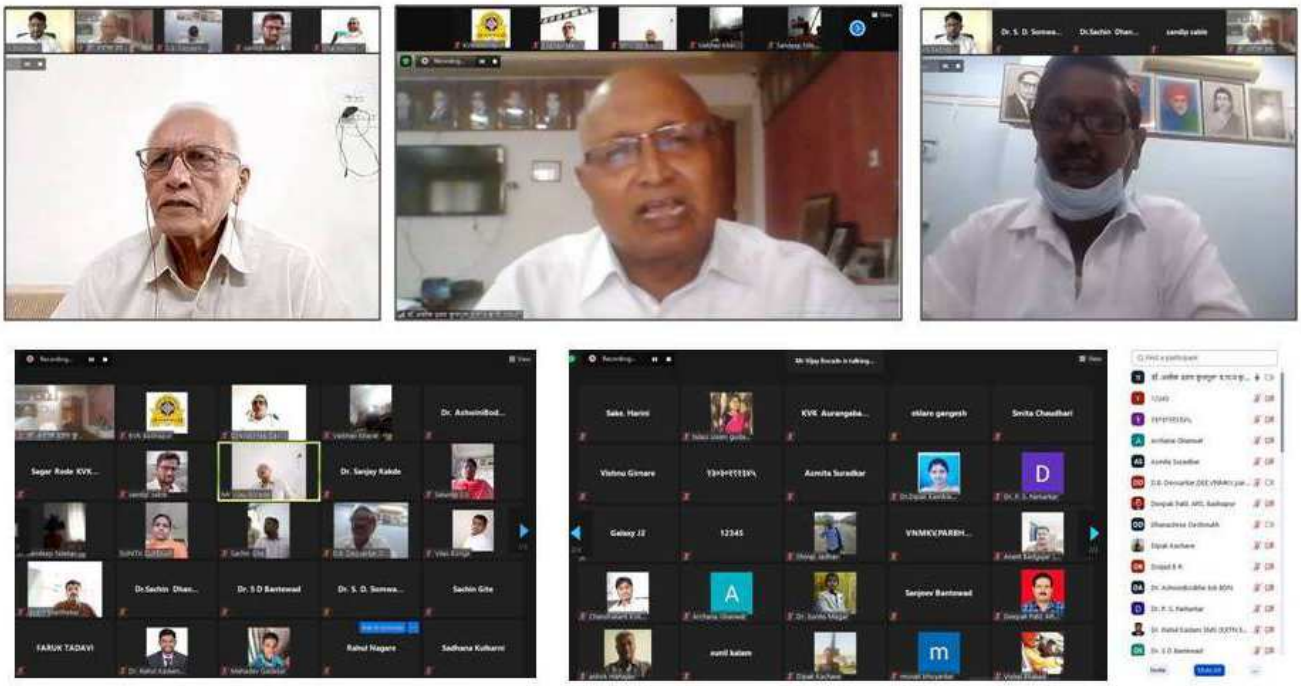
19. University scientists uploaded 185 videos on agriculture technologies and allied enterprises on You Tube and got more than two lack viewers during 2020-21.

20. KVK Aurangabad has developed its own web page. University KVKs gave weather forecasting messages on every Tuesday and Friday. Crop advisories and messages on crop production technologies and allied

enterprises were given on M-Kisan portal, Facebook and WhatsApp groups. More than four lakh farmers are followers of these advisories and messages.

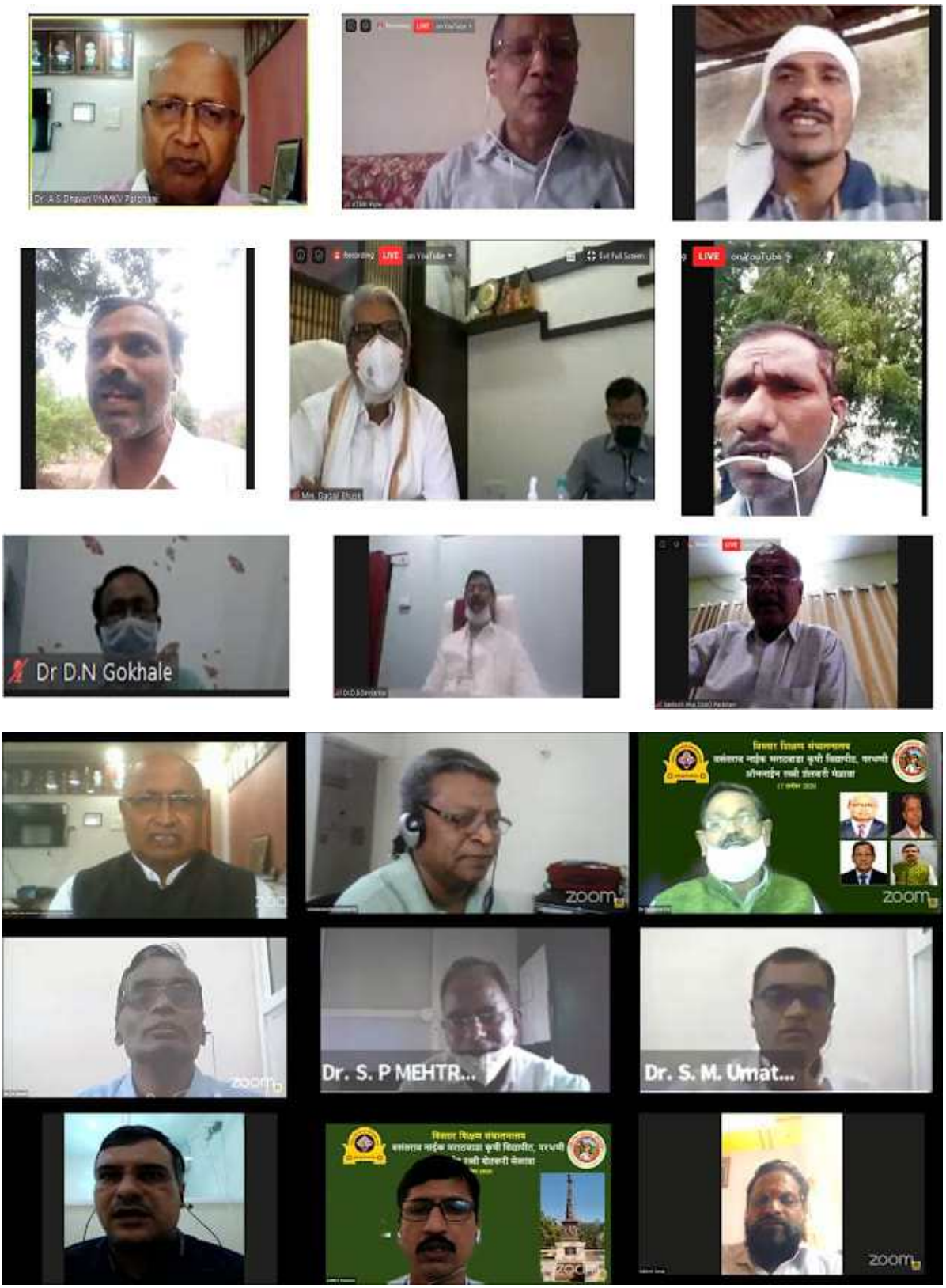
21. Soil testing facilities were made available at university KVKs. Medicinal and ornamental plant garden is developed at KVK, Aurangabad. Seeds and planting materials, agriculture publications, etc. were also made available for farmers.
22. University KVKs organized 1250 On Farm Trials and 2400 Front Line Demonstrations for assessment and refinement of technologies.

Guidance of Shri. Udhav Thackeray, Hon.Chief Minister and Shri. Dadaji Bhuse, Hon. Minister for Agriculture in Online Farmers Rally



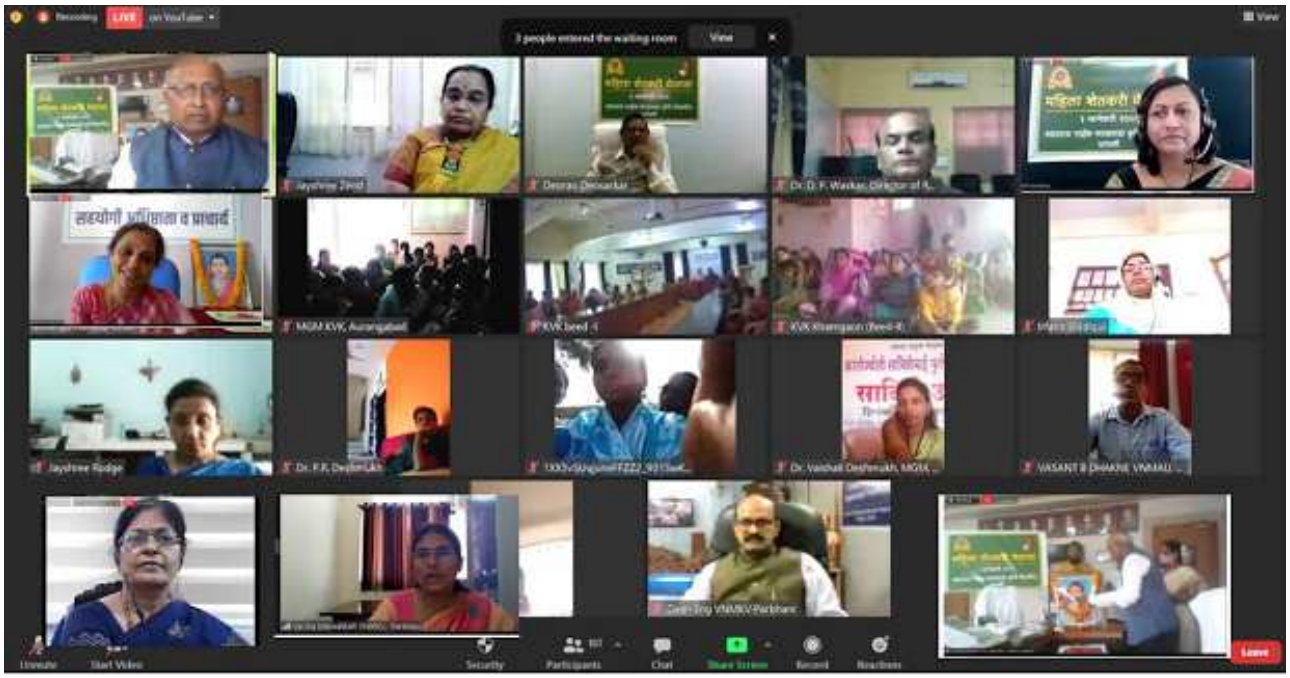
Organization of Online Farmers Rally

Online *Kharif* and *Rabi* Rallies



University at Door Step of Farmers

Training Programme Organization



Multi Location Audio Conference on "Farming Practices on Kharif Season & Government Agriculture Schemes -during COVID-19 Situation"- 1st May, 2020 – Experts from VNMKV, Parbhani , District Agriculture Department, Nanded & SCM ,Ardhapur, Nanded

Reliance Foundation

University Administration

University Officers

As per Maharashtra Agricultural Universities Act, 1983 (14) and statue, 1990, the following are the Executive, Academic and Other Officers of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani during the year 2020-21.

A) Executive Officers

1	Chancellor	Hon. Shri. Bhagat Singh Koshyari
2	Pro-Chancellor	Hon. Shri. Dadaji Bhuse
3	Vice-Chancellor	Hon. Dr. Ashok S. Dhawan

B) Academic Officers

1	Director of Instruction & Dean	Dr.D.N.Gokhale
2	Director of Research	Dr. D.P.Waskar
3	Director of Extension Education	Dr. D.B. Deosarkar
4	Associate Dean & Principal, COA, Parbhani	Dr. Syed Ismail
5	Associate Dean & Principal, COA, Latur	Dr. A. P. Suryawanshi
6	Associate Dean & Principal, COA, Ambajogai	Dr.B.M. Thombre
7	Associate Dean & Principal, COA, Badnapur	Dr.G.M.Waghmare
8	Associate Dean & Principal, COA, Osmanabad	Dr.R.D. Ahire
9	Associate Dean & Principal, COA, Golegaon	Dr.D.B.Deosarkar
10	Associate Dean & Principal, College of Agril. Engg. & Tech. Parbhani	Dr. U.M.Khodke
11	Associate Dean & Principal, College of Food Tech., Parbhani	Dr. U.M. Khodke
12	Associate Dean & Principal, College of Community Science, Parbhani	Dr.J.P. Zend
13	Associate Dean & Principal, Vilasrao Deshmukh College of Agril. Biotechnology, Latur	Prof. H.B. Patil
14	Post Graduate Institute of Agril. Business Management, Chakur	Prof.H.B.Patil
15	College of Horticulture, Parbhani	Dr.T.B.Tambe
16	Associate Dean, Instructions, Parbhani	Dr. D.N.Dhutraj

C) Heads of the Department

Agriculture		
1	Department of Agronomy	Dr. B.V.Asewar
2	Department of Soil Science & Agril. Chemistry	Dr. Syed Ismail
3	Department of Plant Pathology	Dr. K.T.Apet
4	Department of Entomology	Dr. S.D.Bantewad
5	Department of Extension Education	Dr. R.P.Kadam
6	Department of Agri. Botany	Dr. J.E.Jahgirdar
7	Department of Agril. Economics	Dr. D.S.Perke
8	Department of Horticulture	Dr. T.B. Tambe
9	Department of Animal Husbandry and Dairy Science	Dr. G.K.Londhe
10	Department of Agril. Engineering	Dr. A.S. Kadale
11	Department of Agril. Meteorology	Dr. M.G. Jadhav
Food Technology		
12	Department of Food Microbiology and Safety	Prof. H.B. Deshpande
13	Department of Food Engineering	Dr. R.B. Khirsagar
14	Department of Food Business Management	Prof. D.R. More
15	Department of Food Process Technology	Dr. Vijaya Pawar
16	Department of Food Chemistry and Nutrition	Dr. K.S.Gadhe
Community Science		
17	Department of Human Development and Studies	Dr. Jaya Bangale
18	Department of Textile and Apparel Designing	Prof. Medha Umrikar
19	Department of Resource Management and Consumer Science	Dr.J.P. Zend
20	Department of Food Science and Nutrition	Dr. T. Nahed Khan
21	Department of Community Science Extension and Communication Management	Dr. S.G. Puri
Agricultural Engineering		
22	Department of Irrigation & Drainage Engineering	Dr. H.W.Awari
23	Department of Soil & Water Conservation Engineering	Prof. B.W.Bhuibhar
24	Department of Agril. Process Engineering	Dr.S.U.Khodke
25	Department of Farm Power & Machinery	Dr. S.N.Solanki
26	Department of Electrical a & Other Energy Sources	Dr. R.T.Ramteke

D) Other Officers

1	Registrar	Sh. Ranjeet Patil
2	Comptroller	Sh. N.S.Rathod
3	University Engineer	Sh.Gaurishankar Swami
4	Student's Welfare Officer	Dr. M.S. Deshmukh
5	Deputy Registrar (Exam)	Dr. G. A. Bhalerao
6	Deputy Registrar (Admn.)	Sh. P.K. Kale
7	Assistant Registrar (Academic)	Sh. P.M. Patil
8	Librarian	Sh. S.D. Kadam

Vacancy position as on 31.3.2021

ABSTRACT

Sr. No.	Group	Sanctioned post	Filled in post	Vacant post
1	A	598	343	255
2	B	170	88	82
Filled post of Section Officer by deputation from Govt.		02	02	00
3	C	730	410	320
4	D	1386	568	818
	Total	**2886**	**1411**	**1475**

Group –A

Sr. No.	Name of the Post	Sanctioned Post	Filled Post	Vacant Post
1	Director Education, Extension and Research	03	01	02
2	Associate Dean & Principal	12	02	10
3	Head of the Department	10	09	01
4	Professor	44	23	21
5	Associate Professor	183	92	91
6	Assistant Professor	284	172	112
7	Programme Co-coordinator	04	03	01
8	Subject matter specialist	24	23	01
9	Administrative post	34	18	16
	Total	**598**	**343**	**255**

Group B

Sr. No.	Name of the Post	Sanctioned Post	Filled Post	Vacant Post
1	Senior Research Assistant -Agri	67	35	32
2	Senior Research Assistant –Agri Engg	01	01	00
3	Senior Research Assistant -Biotech	04	00	04
4	Senior Research Assistant -Food Tech	06	03	03
5	Veterinary Officer	01	00	01
6	K.V.K.Programme Asstt. -Laboratory Technician	04	03	01
7	K.V.K.Programme Asstt.-Computer	04	03	01
8	K.V.K.Programme Asstt. -Field Manager	04	03	01
9	Section Officer	25	18	07
10	Assistant Section Officer	25	11	14
11	Assistant Superintendent (KVK)	04	03	01
12	Stenographer	21	07	14
13	Technical Asstt. (Lib)	04	01	03
	Total	**170**	**88**	**82**

Group C

Sr.No.	Name of the Cadres	Sanctioned post	Filled-in post	Vacant post
1	Junior Veterinary Officer	**01**	**01**	**00**
2	Computer Operator/Computer Programmer	2	00	02
3	Senior Clerk	66	37	29
4	Steno-typist	4	2	2
5	Jr.Stenogropher (Grade – III) KVK	4	1	3
6	Computer Operator	1	0	1
7	Junior Clerk	157	92	65
8	Library Asstt.	6	1	5
9	Reprographic Asstt.	1	0	1
10	Compounder	2	1	1
11	Junior Research Assistant	74	32	42
12	Junior Engineer	6	3	3
13	Foreman Supervisor	1	01	00
14	Supervisor Home-Science	1	0	1
15	Draftsman	1	1	0
16	Senior Mechanic	2	1	1

17	Junior Mechanic	1	1	0
18	Tractor Driver	5	0	5
19	Truck Driver	4	3	1
20	Driver	42	17	25
21	K.V.K. Driver	8	5	3
22	Agrilcultural Assistant	281	195	86
23	Agricultural Assistant (Agril. Bio-Tech)	2	0	2
24	Agricultural Assistant (Agril. Engineering)	2	0	2
25	Laboratory Assistant	15	1	14
26	Fieldman (Technical Instructor)	1	1	0
27	Electrician	8	4	4
28	Carpenter	3	2	1
29	Artists	2	2	0
30	Sub-Overseer/Tech.Asstt.	5	1	4
31	Computer	1	0	1
32	Montesory Teacher (Home.Sci.)	1	0	1
33	Laboratory Assistant (Home Sci.)	5	0	5
34	Telephone Operator	2	0	2
35	Plumber	4	2	2
36	Mistry	1	0	1
37	Boiler Assistant (Tech.)	1	0	1
38	Welder	1	1	0
39	Turner	1	0	1
40	Fitter	2	0	2

Group- D

Sr.No.	Name of the Cadres	Sanctioned post	Filled post	Vacant post
1	Lab. Boy	52	15	37
2	Labour	938	392	545
3	Watchman	149	41	108
4	Peon	110	30	80
5	Grazer	6	0	6
6	Attendant	9	3	6
7	Milker	4	0	4
8	Book Bearer	1	1	0
9	Mistry	1	0	1
10	Dresser	1	0	1
11	Farash	1	1	0
12	Sweeper	27	16	11
13	Mali	19	10	9
14	Library Attendant	5	3	2
15	Laboratory Attendant	54	50	4
16	Cook	3	1	2
17	Pashudhan Parichar	1	0	1
18	Jamadar	1	1	0
19	Rukhi / Walmiki	4	3	1
	Total	**1386**	**568**	**818**

- **Universities Authorities Meetings :** The meetings of the various bodies of the University authorities such as Executive council, Academic Council, Agricultural Research Council, Extension Council Faculties and Board of Studies were conducted time to time during the period of report.
- **Executive Council** : during the period of report, total 4 meetings of the executive council were conducted.
- **Academic Council** : Two meetings of the academic council were conducted during the period of report.
- **Agril. Research Council** : One meeting of the Agril. Research Council was conducted during the period of report.
- **Extension Council** : One meeting of the Executive Council was conducted during the period of report.
- **Educational Faculties** : Faculty meeting were conducted in all the faculties of agriculture and allied sciences during the period of report.
- **Board of Studies** : Regular meetings of Board of Studies were conducted in all agriculture and allied sciences during the period of report.

MAU 2020-21(1April-2020)

REVENUE INCOME

Group Summary

1-Apr-2020 to 31-Mar-2021

Particulars	Closing Balance	
	Debit	Credit
ANIMAL HUSBANDRY RECEIPTS		**7,88,352.00**
Sale of Fym(Senkhat)		*35,880.00*
Sale of Milk & Milk Produce		*4,24,602.00*
Sale of Poultry Products		*3,27,870.00*
CAPITAL RECEIPTS		**91,49,851.00**
Sale of Furniture/tools/dead Stock (Auction)		*87,58,295.00*
Sale of Live Stock		*3,91,556.00*
EDUCATIONAL RECEIPTS		**11,12,44,807.50**
Admission / Regi. Fees		*3,12,230.00*
Bonafide Fees		*17,270.00*
Convocation Fees		*70,000.00*
Electricity Charges (Student)		*11,91,730.00*
Eligibility Fees		*5,70,411.00*
Enrolment Fees		*19,14,328.00*
Examination Fee 25%		*14,26,082.50*
Examination Fees 75%		*2,70,30,730.50*
Fine & Dues		*38,665.00*
Grade Card Fees		*13,58,650.00*
Hostel Room Rent		*2,66,500.00*
Insurance Charges From Student		*3,76,025.00*
Library Fee		*35,42,275.00*
Marklist & Provisional Certificate Fees		*4,900.00*
Medical Examination Fees		*3,81,421.00*
Migration Fees		*93,240.00*
ODC PDC Fees / Verification		*8,72,590.00*
Other Educational Receipts		*4,37,19,079.00*
Recheking		*10,000.00*
Registration Fees (Income)		*6,20,800.00*
Re-Recognition / Proceesing Fees Pvt Colleges		*5,50,000.00*
Transfer Certificate Fees		*36,190.00*
Tution Fees		*2,68,41,690.50*
FARM RECEIPTS		**18,76,280.00**
Sale of Cotton Lint		*1,27,997.00*
Sale of Fertiliser		*8,82,755.00*
Sale of Fodder		*2,73,586.00*
Sale of Other Farm Produce		*4,88,945.00*
Sale Of Sugarcane		*1,02,997.00*
GENERAL REVENUE RECEIPTS		**2,30,03,343.18**
Application Forms		*16,100.00*
Bank Interest Received		*1,93,12,347.18*
E Tender		*8,93,500.00*
Other General Receipts		*14,92,947.00*
Penalty / Liquid Damages Recovered From Contractors		*2,12,400.00*
Rent of Buildings		*7,30,171.00*
Rest House Charges		*1,40,280.00*
Sale of Publication & Written Articles		*50,310.00*
Sale of Stationery / Cloth		*22,500.00*
Sale of Tender Forms		*88,580.00*
University Library Receipts		*29,700.00*
Water Tax Received		*14,508.00*
Carried Over		**14,60,62,633.68**

continued ...

MAU -2020-21

MAU 2020-21(1April-2020)
REVENUE INCOME Group Summary : 1-Apr-2020 to 31-Mar-2021

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Particulars	Closing Balance	
	Debit	Credit
Brought Forward		**14,60,62,633.68**
HORTICULTURE RECEIPT		**64,16,914.00**
Sale of Horticulture Produce		*24,61,601.00*
Sale of Plants / Nursery		*39,55,313.00*
SEED RECEIPTS		**82,681.00**
Sale of Seed		*81,631.00*
Sale of Seedling		*1,050.00*
Grand Total		**15,25,62,228.68**

Asstt. Comptroller
V. N. M. K. V.
Parbhani

MAU -2020-21

MAU 2020-21(1April-2020)

REVENUE INCOME
Group Summary
1-Apr-2020 to 31-Mar-2021

Page 1

Particulars	Closing Balance	
	Debit	Credit
ANIMAL HUSBANDRY RECEIPTS		**7,88,352.00**
CAPITAL RECEIPTS		**91,49,851.00**
EDUCATIONAL RECEIPTS		**11,12,44,807.50**
FARM RECEIPTS		**18,76,280.00**
GENERAL REVENUE RECEIPTS		**2,30,03,343.18**
HORTICULTURE RECEIPT		**64,16,914.00**
SEED RECEIPTS		**82,681.00**
Grand Total		**15,25,62,228.68**

Asstt. Comptroller
V. N. M. K. V.
Parbhani

MAU 2020-21(1April-2020)

Expenses

Group Summary

1-Apr-2020 to 31-Mar-2021

Particulars	Closing Balance	
	Debit	Credit
Contingency	**26,28,48,004.00**	**7,22,902.00**
HOSPITALITY EXPENSES	8,31,156.00	
MAINTAINCAE	7,67,12,322.00	
MATERIAL & SUPPLIERS	2,62,91,836.00	
MOTOR VEHICLES (FUNCTIONAL)	95,77,580.00	
OFFICE EXPENSES RECURRING	12,25,39,233.00	76,532.00
PROFESSIONAL & SPECIAL SERVICES	71,29,849.00	
PUBLICATION	1,85,422.00	
RENT , RATE & TAXES	31,80,606.00	
STIPEND & SCHOLARSHIP	1,64,00,000.00	6,46,370.00
PENSION & GRATUITY	**83,87,16,406.00**	
Basic Pension	*52,90,49,131.00*	
Commutation of Pension	*2,68,02,747.00*	
Encashment of Leave	*4,20,65,936.00*	
Gratuity	*1,85,21,670.00*	
Pension Arrears.	*5,77,77,569.00*	
Pension Releif	*16,44,99,353.00*	
SALARIES	**1,13,81,29,359.00**	
6th Pay Arrears Advance	*6,738.00*	
CLA & Other Allowance	*43,42,406.00*	
Contratual Salary	*1,08,92,796.00*	
Conveyance Allowance	*83,33,179.00*	
Dearness Allowance	*70,10,77,224.00*	
Grade Pay	*6,19,32,696.67*	
House Rent Allowance	*3,32,34,311.00*	
Medical Reimbursement	*70,62,961.00*	
NPS Govt.Share	*1,80,174.00*	
Over Time	*5,56,770.00*	
Pay of Establishment	*17,20,02,040.33*	
Pay of Officers	*13,82,08,207.00*	
Washing Allowance	*2,99,856.00*	
TRAVEL EXPENSES	**24,94,655.00**	
T.A. to External Examiner	*12,000.00*	
T.A. to Staff Member	*24,82,655.00*	
WAGES & FIELD OPERATION	**55,02,110.00**	
Field Operation	*54,77,190.00*	
Labour Wages	*24,920.00*	
Goods and Service Tax		48,326.00
Grand Total	**2,24,76,90,534.00**	**7,71,228.00**

Asstt. Comptroller
V. N. M. K. V.
Parbhani

University Engineer

Major Infrastructural work undertaken during 2020-21

Sr.No.	Name of work	Amount (Rs.)
1	Proposed for estiblishment of skill development training centre for SC beneficiaries at College of Agriculture, Latur	1,36,26,732
2	Construction of threshing yard (15x11x1 mt) without cover for Organic Farming Research and Training Centre at Sayala block	4,29,281
3	Construction of CD work at Shendra Block-A at VNMKV, Parbhani	2,64,288
4	Providing and fixing colour coated sheet on roof of lab at Dept. of Extension Education, COA, Parbhani	1,90,729
5	Providing and fixing GI sheet and minor work at Agriculture Engg. Dept. class room at COA, VNMKV, Parbhani	2,15,007
6	Providing renovation to EI for priyadarshani girls hostel (First floor) at College of Agriculture, Latur	2,66,037
7	Providing and fixing paver block in front of Dept. of Extension Education, College of Agriculture, Parbhani	2,63,473
8	Providing and applying internal colouring to Dept. of Agril. Engineering, College of Agriculture, Parbhani	2,26,489
9	Providing renovation to EI for Seed Research Technology and Seed Breeding Dept. in Sector-I, VNMKV, Parbhani	2,66,997
10	Providing renovation to EI for Grishma boys hostel in Sector-I, VNMKV, Parbhani	1,75,435
11	Providing EI for dining hall, kitchen and main panel for Girls hostel at Latur under VNMKV, Parbhani	2,65,205
12	Providing and erecting static energy meter with 240 V 50 HZz AC supply 5 to 30 A ISI mark for Sector-III and II VNMKV, Parbhani	2,65,850
13	Providing and fixing false ceiling for ELP mashrum lab at COA, Latur	2,46,852
14	Renovation of toilet block and repairing of under ground store room at library in Sector-I, Parbhani	1,74,542
15	Construction of flag hostel otta/stage for Adm building at VNMKV, Parbhani	2,60,576
16	Construction and repairs of cement concrete compound wall at Sorghum Research Centre, Parbhani	2,51,904
17	Repairs of floor for ELP mashrum lab at COA, Latur	2,39,619
18	Providing and fixing concrete paver block for passage towards flg otta infornt of Adm building in Sector-III, VNMKV, Parbhani	2,50,834
19	Repairs for library building in Sector-I under VNMKV Parbhani	2,62,285

20	Providing and fixing structural sheet below galvanized sheet for mashrum lab at COA Latur under VNMKV, parbhani	2,64,815
21	Repairs doors and WC bath and stop tap at first floor Grishma hostel	2,67,302
22	Providing and fixing galvanized sheet for mashrum lab at COA, Latur	2,61,142
23	Providing EI to goat and godown at KVK, Tuljapur	2,67,075
24	Minor repair of laboratory at Dept. of Horticulture, COA, Parbhani	2,64,201
25	Providing renovation to EI for Sahyadri boys hostel in Sector-II, VNMKV, Parbhani	2,67,096
26	Providing renovation to EI for A -22, A-19, A-10 Qtr and main panel work at International boys hostel, VNMKV, Parbhani	1,74,485
27	Colouring to ELP mashrum lab at COA Latur	1,77,453
28	Providing renovation to EI for artificial intellingence, Agril Droung and 3 ph wiring for Agrobots AGV Lab, NAHEP CAAST Project in Sector -III VNMKV Parbhani	2,66,580
29	Proviidng 2.5 KVA inverter and 12V/180 Ah batteries at organic farm research and training centre in Sector-II, VNMKV, Parbhani	88,174
30	Providing and applying colouring to shard hostel at VNMKV, Parbhani	2,05,206
31	Providing EI for library in Sector-I, VNMKV, Parbhani	1,82,132

Memorandum of Understanding (MoU)

Memorandum of Understanding (MoU) between VNMKV and ICAR-National Research Centre on Pomegranate, Solapur on February 07, 2021 for facilitating institutional Research

Memorandum of Understanding (MoU) between VNMKV and ICAR-Indian Institute of Oilseeds Research, Hyderabad on March 22, 2021 for facilitating institutional Research

Memorandum of Understanding (MoU) between VNMKV and Inventive Solutions, Nasik on March 15, 2021 for Manufacturing of solar equipments

Green Campus - Clean Campus

Vasantrao Naik Marathwada Krishi Vidyapeeth
Parbhani - 431 402

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