

# 51<sup>st</sup> ANNUAL REPORT 2022-23



**Vasant Rao Naik Marathwada Krishi Vidyapeeth**  
**Parbhani - 431 402 (Maharashtra)**

## Special Events



Visit of  
Hon. Shri. Abdul Sattar,  
Minister Agriculture to  
ATIC, VNMKV

Visit of  
Hon. Shri. Dadaji Bhuse  
Former Minister Agriculture to  
Dept. of Plant Pathology



### **Inauguration of Science Park**

Hon. Shri. Aditya Thakre,  
Hon. Shri. Dhanajay Munde,  
Hon. Shri. Uday Samant,  
Hon. Shri. Sanjay Jadhav,  
Hon. Dr. Rahul Patil,  
Hon. Dr. Pramod Yeole,  
Dr. Rameshwar Naik





# 51<sup>st</sup> **ANNUAL REPORT** 2022-23



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

# 51<sup>st</sup> ANNUAL REPORT 2022-23

## Annual Report Editorial Committee

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## Published By

**Shri. P.K. Kale**  
Registrar, VNMKV, Parbhani

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## Printed at

**Omkar Graphics**  
**Parbhani**





**Dr. Indra Mani**

**Vice-Chancellor**

**Vasantao Naik Marathwada Krishi Vidyapeeth  
Parbhani**

## PREFACE

I have a great pleasure in presenting 51th Annual Report of Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani. The significant contributions of the University in the field of education, research and extension during 2022-23 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 so far 151 varieties of field crops and horticultural crops with reference to high production potential & quality aspects. The 53 farm implements are also designed, developed and commercialized. Similarly, University has given more than 1000 recommendations on production technologies. University has signed various MoU's with ICAR institutes for facilitating research facilities of the ICAR institutes for PG and Ph.D. students. Similarly University also signed MoU's with some manufacturers for commercialization of small farm implements and equipments. Complete mechanization programme will be implemented to increase the productivity of major crops in the region. Under this programme, training will be given to 1500 farmers, technicians and rural youth upto December 2024 so that, in future all trainees will be motivated to become entrepreneur.

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. National Higher Education Project jointly sponsored by ICAR and World Bank conducted many training programmes and organized several National and International conferences / seminars wherein many PG and Ph.D. students participated. Such events definitely found useful to students particularly in personality development and strengthening the research background. Drone technology is being used in agriculture sector for nutrient management, water management, pest and disease management. University is taking initiative in developing drone pilot for spraying of insecticide as per crop requirement. The training and research will be carried out for designing nozzle, artificial intelligence and machine learning.

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 18<sup>th</sup> May, 17<sup>th</sup> September and 3<sup>rd</sup> January and crop specific advices were given to the farming community. The large amount of seed was distributed to the farmers during University Foundation Day i.e. on 18<sup>th</sup> May. During the report year University conducted a programme of My One Day for My Farmer in total Marathwada region. University scientists spent whole day on farmers field and guided. 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 Vasantao 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.N. Gokhale, 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.

**(Indra Mani)**  
**Vice-Chancellor**



**Shri. Ramesh Bais**  
Hon. Chancellor & Governor of Maharashtra



**Shri. Eknath Shinde**  
Hon. Chief Minister of Maharashtra



**Shri. Devendra Fadnavis**  
Hon. Dy. Chief Minister of Maharashtra



**Shri. Abdul Sattar**  
Hon. Agril. Minister of Maharashtra



**Dr. Indra Mani**  
Hon. Vice Chancellor, VNMKV, Parbhani



**Executive Council Members 2022-23**  
**Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani**

Sr.No.	Name	Address	
1	Dr. Indra Mani	Vice Chancellor, VNMKV, Parbhani	Chairman
2	Shri.Satish Bhanudasrao Chavan	Member of Legislative Council Plot No. 10 Supriya, Jyoti Nagar, New Osmanpura, Aurangabad- 431 005	Member
3	Dr. Rahul Patil	Member of Legislative Assembly Torna 138, Shivaji Nagar, Parbhani	Member
4	Shri. Abhimanyu Pawar	Member of Legislative Assembly Narsingh Nagar, Korali Road, Kasarsirsi, Tq. Nilanga, Dist. Latur	Member
5	Shri. Vitthal Mhatarji Sapkal	Progressive farmer, Teachers colony, Sillod, Dist. Aurangabad	Member
6	Shri. Suraj Uttam Jagtap	Progressive farmer, Saswad, Dist. Pune	Member
7	Shri. Pravin Balasaheb Deshmukh	Progressive farmer, 84, Ashirwad, Ramkrishna Nagar, Basmat Road, Parbhani	Member
8	Shri. Dilip Awchitrao Deshmukh	Progressive farmer, 8 Sayhadri nagar, Pundalik Nagar road, Garkheda, Chhatrapati Sambhaji Nagar	Member
9	Dr. Aditi Subhashchandra Sarda	Progressive farmer. Karim pura, Shukrawar peth, Beed	Member
10	Sh.Bhagwat Ajabrao Devsarkar	Agril. Enterprunuer, 302, Shree Niwas Chhatrapati Apartment, Near Jijamata School, Behind hotel Chandralok, Hingoli Road, Shriram Nagar, Nanded	Member
11	Dr. Rajiv A. Marathe	Director, ICAR-National Research Centre on Pomegranate, Solapur	Member
12	Commissioner (Agriculture)	Commissionerate of Agriculture, Pune	Member
13	Divisional Assistant Commissioner ( Animal Husbandry)	Office of the Divisional Assistant Commissioner ( Animal Husbandry) Khadkeshwar, Pune	Member
14	Director ( Horticulture)	Govt. of Maharashtra, Narvir Tanaji Wadi, Shiwaji Nagar, Pune	Member
15	Chief Conservator	Chief Conservation of Forest, Osmanpura, Aurangabad	Member
16	Divisional Deputy Commissioner (Fisheries)	Office of the Fisheries, Govt. of Maharashtra, Near Collector Office, Aurangabad	Member
17	Dr. D.N.Gokhale	Director of Instruction and Dean, VNMKV, Parbhani	Member
18	Dr. D.P.Waskar	Director of Research, VNMKV, Parbhani	Member
19	Smt. D.M.Devatraj	Comptroller, VNMKV, Parbhani	Member
20	Dr. D.R. Kadam	Registrar, VNMKV, Parbhani	Member secretary

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# 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 year University is celebrating its Golden Jubilee Year. 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 17° 35' to 20° 40' N latitude and 74° 40' to 78° 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.

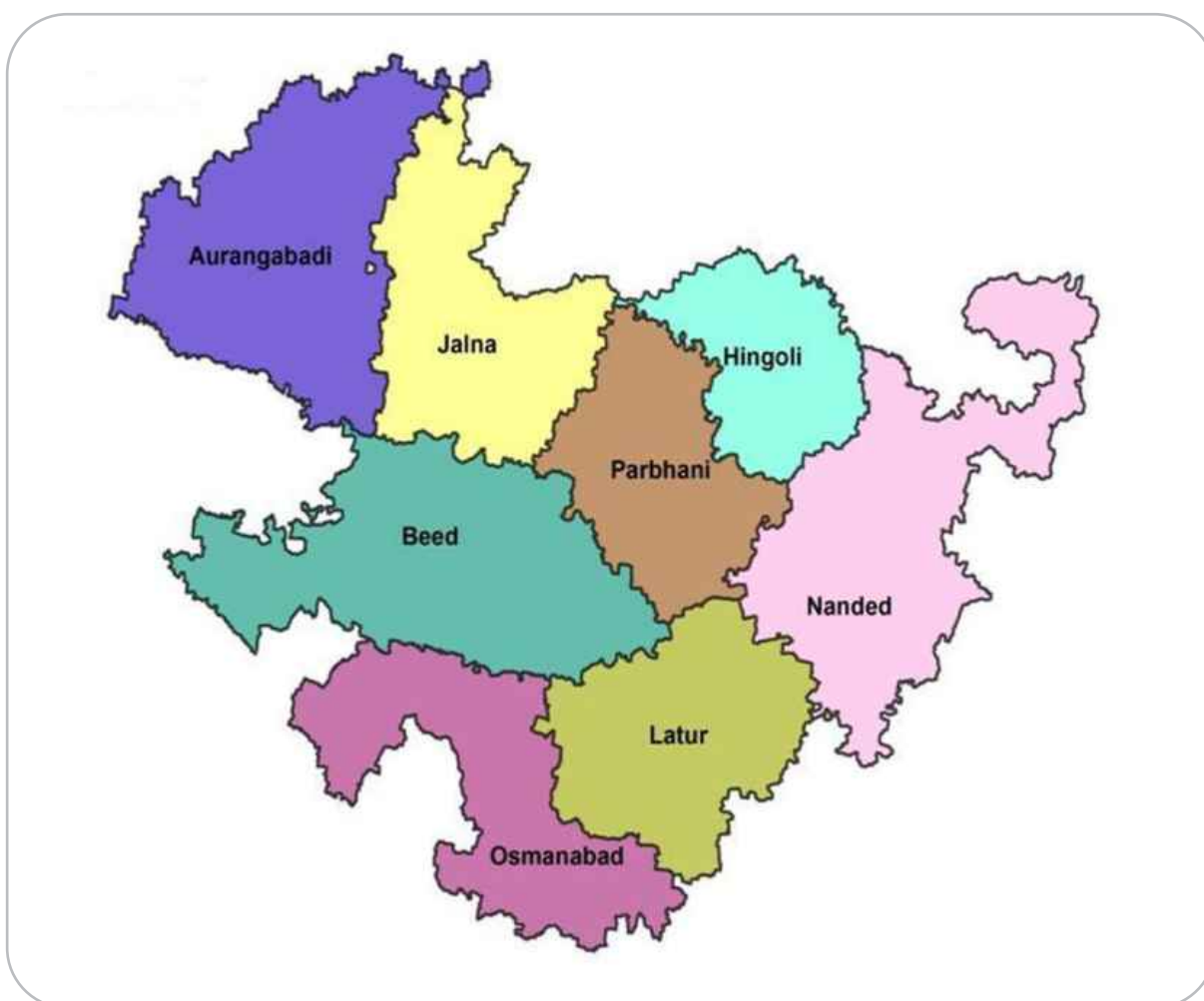
Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani imparts education leading to undergraduate and post graduate degree programmes under the faculties of Agriculture, Food Technology, Agricultural Engineering, Community Science, Agricultural Business Management and Agricultural Biotechnology. Agricultural colleges 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 reutilization. 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; IARI, New Delhi; 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 made MoA with some Industries for manufacturing of implements and equipments 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 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.

The University has completed 50 years of establishment. The 51st Annual Report of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani includes the information on education, research and extension education activities carried out during 1st April, 2022 to 31st March, 2023.



**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. (Agril. 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.	Student intake 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	-
<b>Total</b>			<b>792</b>	<b>356</b>	<b>42</b>



## 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	Chhatrapati Shahu Phule Ambaедkar 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 Gadhpatti, Osmanabad	2015-16	60
21	College of Agriculture, Pathri. Tq. Phulambri. Dist. Aurangabad	2015-16	60
<b>Total</b>			<b>2340</b>

#### 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, Aurangabad	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
<b>Total</b>			<b>860</b>



**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
<b>Total</b>			<b>400</b>

**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
<b>Total</b>			<b>200</b>

**Lower Agricultural Education**

There are 06 constituent and 51 private Agricultural Technical Schools in which two years Marathi medium Agri. Tech. diploma is running. The annual intake of the schools is 3420. The students passed 10<sup>th</sup> 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 2022-23**

Sr. No.	Course	No. of students admitted	No. of students passed out in diploma/ Certificate Course
1	Agriculture Technical diploma	2924	2070
2	Mali Training Certificate Course	25	05

### Faculty wise number of students completed the degrees during 2022-23

Sr.No.	Course Name	No. of students
<b>Ph.D. Courses</b>		
1	Ph. D. (Agri.)	24
2	Ph. D. (Home Science)	--
3	Ph. D. (Food Tech.)	02
4	Ph. D. (Agril. Engg.)	01
<b>Total A</b>		<b>27</b>
<b>PG Courses</b>		
1	M.Sc. (Agri.)	239
2	M.Sc. (Hort.)	34
3	M.Sc. (Home Science)	07
4	M.Tech. (Food Tech.)	15
5	M.Tech. (Agril. Engg.)	13
6	M.B.A. ( Agril.Business Management)	32
7	M.Sc. (Agri. Bio. Tech.)	09
<b>Total B</b>		<b>349</b>
<b>U.G.Courses</b>		
1	B.Sc. (Agri.)	3928
2	B.Sc. (Hort.)	64
3	B.Sc. (Home Science)	23
4	B.Sc. (Agril Bio . Tech.)	475
5	B.Tech. (Food Tech.)	993
6	B.Tech. (Agril.Engg)	247
7	B.B.A. (Agri.)	29
<b>Total C</b>		<b>5759</b>
<b>Grand Total: A+ B+ C</b>		<b>6135</b>

### Awards Received by the Faculty

Sr. No.	Name of the Awardee	Title of the Award	Organiser
1.	Dr. J.M. Deshmukh	Best Oral Presentation	International Conference at BHU, Varanasi
2.	Dr.A.P. Suryawanshi	IPS Recognition Award for Outstanding contribution/work in Indian Phytopathology Society, New Delhi.	In IPS Platinum Jubilee Conference on Plant and Soil Health Management : Issues and Challenges, organized during 02 <sup>nd</sup> - 4 <sup>th</sup> February, 2023 at the University of Mysore (Karnataka)
3.	Dr.B.M. Thombre	Lifetime Achievement Award	ISAHRD, Chandigarh in International Conference (IAAHAS-2023) held on 29-31 March, 2023 at SGT University, Gurugram, Haryana.
4.	Dr.P.N. Karanjikar	Best Academician Award	ISAHRD, Chandigarh in International Conference (IAAHAS-2023) held on 29-31 SGT University, March, 2023 at Gurugram, Haryana.
5.	Dr.D.S. Chouhan	Second prize	Oral and Poster presentation in National Symposium on Animal Genetic resources management for rural livelihood enhancement.
6.	Dr.D.S. Chauhan	Breed Conservation Award-2022	NDRI,Karnal.
7.	Dr.P.B. Wadikar	Best Academician Award	ISAHRD, Chandigarh in International Conference (IAAHAS-2023) held on 29-31 March, 2023 at SGT University, Gurugram, Haryana.
8	Dr. V.K. Bhamare	Fellow	Society for Bio-Control Advancement, Society for Bio- Control Advancement, ICAR-NBAIR, Bengaluru
9	Dr.A.S.Lohkare	Young Scientist Award	VII international conference on global research initiatives, Birsa Agricultural University, Kanke Ranchi
10	Dr. V.V. Bhagat	Women Scientist Award	VII international conference on global research initiatives, Birsa Agricultural University, Kanke Ranchi
11	Dr. V.V. Bhagat	Best Scientist Award in horticulture	7 <sup>th</sup> International conference on OCAEBGD-2022 Goa
12	Dr. R.F.Thombre	Best paper presentation award	National Conference on Agril. Economics organised by Maharashtra Society of Agril. Economics and Dr. BSKKV,

**List of student's qualified GATE-2022 examination conducted for PG admission at Indian Institute of Technology.**

Sl.No.	Name of the Student	GATE Score	All India Rank (AIR)
01.	Mr. Vishal S. Kulkarni	Qualified	105

**List of students qualified ICAR Ph.D CET Examination -2022.**

Sl. No.	Name of Student	All India Rank
01	Ms. Ananya Mishra College of Agril.Engg. & Tech. VNMKV, Parbhani	68

**Miss. Prachi Gattani secured first position in NET examination at National level.** Miss Prachi Gattani a student of College of Community Science secured first position at National Level in UGC-NET examination. She scored 248 marks in the examination.



**Scientists visited abroad :**

- 1) Dr. S. U. Khodke and Dr. R.B. Kshirsagar participated as an esteemed panel members in discussions during the workshop on Regional Soy Food Workshop in Kathmandu, Nepal, during 22-23, Nov. 2022 organised by United State Soybean Export Council (USSEC).
- 2) Dr. G.U.Shinde and Dr. K.K.Dakhore attended short term training programme of 3 months at USA at University of Florida during Sept-Dec 2022.
- 3) Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani was invited for 20th IGR world conference which was held at Department of Agriculture and Bio Engineering,. University of Florida, America. The conference was held during December 5-9, 2022. Dr. Indra Mani was bestowed with Fellow of this University. Dr. Indra Mani delivered special lecture on “Sustainable food-water - energy relation reference to India” in this conference. The outcome of the conference will be useful to Marathwada region and sustainable agriculture production in the state. Dr. Indra Mani also discussed on participatory research projects with professors and scientists of various countries.

**New Project Approved / Sanctioned**

Sl. No.	Name of the project and institute	Sponsored by	Financial outlay, (Rs. lakh)
01.	Determination of Crop Coefficient of Important Crops Using Lysimetric Studies”	PoCRA, Government of Maharashtra	78.80
02	Common Incubation Centre under PMFME through	Ministry of Food Processing Industries, GoI	329.50



## RAWE Programme : College of Agriculture, Parbhani



## Programmes Organized : College of Agriculture, Golegaon



Inauguration of New College Building by Hon Minister of Agriculture Shri. Dadaji Bhuse, Dr. A.S Dhawan Vice-Chancellor, VNMKV, Parbhani and Dr. Rahul Patil EC Member & MLA, Parbhani



Dist. Collector Shri. Papalkar participated in Celebration of Van Mahotsav jointly with Forest Department Aundha (Na)



Boys Students Playing Volleyball Match



Prize distribution to winner team at the auspicious hands of Dr. Indra Mani Hon, Vice-Chancellor VNMKV, Parbhani



Cultural Event



## Programmes Organized : College of Agriculture, Iatur



ELP Activities



Field Visit to Experimental Plot



Educational Tour



Cultural Activities



## Golden Girl

**Siddhi Bharatrao Desai**

M.Sc. Entomology, II Year



**Youth Festival 2022-23,  
17 to 20 August 2022, SWO, VNMKV, Parbhani**

- ▶ Poster Making (Gold)
- ▶ Cartooning (Gold)
- ▶ On the Spot Painting (Gold)
- ▶ Rangoli (Gold)
- ▶ Clay Modeling (Gold)
- ▶ Collage Making (Gold)



**36th Inter University West Zone Youth Festival 2022-23,  
10 to 14 February 2023, Ganpat University, Mehsana, Gujarat**

- ▶ Mehandi (Gold )

**36th Inter University National Youth Festival 2022-23,  
24 to 28 February 2023, Jain Deemed-To-Be-University, Bengalore**

- ▶ Mehandi (Bronze)

**21st All India Agricultural University Youth Festival – ‘Agriunifest 2023,  
13 to 17 March 2023, UAS, Bengalore**

- ▶ Poster Making (Gold)
- ▶ Cartooning (Gold )



### **Centre of Excellence on Digital Farming at VNMKV (NAHEP)**

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 World Bank and Govt. of India with a financial outlay of Rs. 18.00 Crores for this project for a period of 4 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 2022-23. Similarly, the National and International Webinars covering various issues of advanced agricultural sciences were organized.



Visit of Dr. R.C. Agrawal, National Co-ordinator, NAHEP, New Delhi to VNMKV, Parbhani



Visit of Dr. Aditya Singh, University of Florida (US) to NAHEP, VNMKV, Parbhani

## Activities under NAHEP



Signing of MoU with International Organizations



Signing of MoU with International Organizations



Signing of MoU with ISRO, Ahmedabad



### National & International Trainings organized

Sr No	National & International Events (training)	No. of participants	Duration
1	IIT Kharagpur organized a Two-week training on <b>“Digital Image Processing and Computer Vision for Crop Health Monitoring”</b>	42	06 June, 2022 To 18 June 2022
2	IIT Kharagpur organized a Three-week training on <b>“Computer Aided Design and Simulation of Agri-Machines using Solid Works”</b>	17	06 June 2022 To 25 June 2022
3	Online Workshop organized by NAHEP-CAAST-DFSRDA, VNMKV Parbhani on <b>“Intellectual Property Rights (IPR) &amp; Patents, Design Filing”</b> in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM) Government of India, Nagpur (Under National Intellectual Property Awareness Mission)	402	29 August, 2022
4	National Agriculture Higher Education Project Centre of Excellence: Digital Farming Solutions for Enhancing Productivity by Roots, Drones and AGV's (DFSRDA), VNMKV, Parbhani (M. S.) India organized National Training Programme on <b>“Quality Seed Production and Certification of Field Crops”</b>	67	10 Oct, 2022 To 15 Oct, 2022
5	National Agricultural Higher Education Project, Centre of Excellence: Digital Farming Solutions for Enhancing Productivity by Robots, Drone and AGV's (DFSRDA), VMKV, Parbhani (M. S) India organized Two Days Workshop cum Training on <b>“Effective E-Content Development for Education in Agriculture”</b>	57	21Nov, 2022 To 22 Nov,2022
6	IIT Bombay originated Residential two-week short-term course training programme for NAHEP Faculty and Researches on <b>“Data Driven Agriculture: Tools and Techniques”</b>	40	10 Dec, 2022 To 23 Dec, 2022
7	National Agricultural Higher Education Project, Centre of Excellence: Digital Farming Solutions for Enhancing Productivity by Robots, Drone and AGV's (DFSRDA), VNMKV, Parbhani (M. S) India in Collaboration with ICAR- IASRI, New Delhi organized Two Days Workshop cum Training on <b>“Academic Management System (AMS)”</b>	53	28Feb, 2023 To 01 March, 2023
8	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani & Helper Robotic South Korea organized Two Days Workshop cum Training on <b>“Advance Vegetable Robotic Grafting Technology in Agriculture”</b>	131	13 March, 2023 To 14 March, 2023
9	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani & KKK Japan organized One Week Workshop cum Training programme on <b>“Advanced Vegetable Japanese Robotic Grafting Technology in Agriculture ”</b>	120	20 March, 2023 To 25 March, 2023

### International Webinar Organized

International Webinar	No. of participants	Date
Webinar on “ <b>Adoption of Digital Agriculture for Sustainable Crop Production</b> ” with collaboration university Putra, Malaysia	40	28/11/2022

### International Training's Attended for Faculties and Students

Sr No	International Trainings (Faculty & Students)	No. of participants	Duration
1	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training on “UAV Application and Remote Sensing in Agriculture” at University of Florida (Dr. G. U. Shinde & Dr. K. K. Dakhore)	02	15 Sep, 2022 To 15 Dec, 2022
2	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training and Experimental Learning on Digital Technologies and Applications at Geoinformatics Centre, AIT, Bangkok	10	27 Feb, 2023 to 24 March, 2023
3	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training at Yunus Centre, AIT Bangkok (Miss. Sushma Mane)	01	27 Feb, 2023 to 24 March, 2023
4	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training at Yunus Centre, AIT Bangkok (Dr. Veena Bhalerao)	01	16 March, 2023 to 24 March, 2023
5	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training at School of Engineering, AIT, Bangkok	13	01 March, 2023 To 31 March, 2023
6	NAHEP-CAAST-DFSRDA, VNMKV, Parbhani organized International Training at University Polytechnic Valencia, Spain	02	01 March, 2023 To 31 March, 2023



Demonstration of Grafting Robots



### **Deputation of PG students to Thailand for higher studies on digital farming**

National Higher Education Project (NAHEP) project sponsored jointly by World Bank and Indian Council of Agricultural Research, New Delhi is being in operation at VNMKV, Parbhani. The main objective of the project is to create a skill of digital farming among the scientists and students. As a part of this, 11 post graduate students from different faculties were deputed to Asian Institute of Technology, Thailand during 26th February to 26th March, 2023. The PG research work of these students is on digital technology and farm mechanization.

### **Demonstration of Drone technology on farmers field**

National Higher Education Project (NAHEP) project sponsored jointly by the World Bank and Indian Council of Agricultural Research, New Delhi is being in operation at VNMKV, Parbhani. The main objective of the project is to create awareness of drone technology among farming community. College of Agricultural Engineering and Technology demonstrated the use of drone technology on farmers field at village Pingli and Karegaon. Dr. Indra Mani, Hon. Vice Chancellor inaugurated the programme on 30th March, 2023. The demonstration was organised on the field of Shri. Sopanraoji Awachar and Shri. Khurana. Dr. U.M.Khodke, Associate Dean and Principal, Dr. Gopal Shinde, PI, NAHEP along with Shri. Rahul Magdum and Er. Ajinkya from IoTech company were present for this programme.



## Organisation of 24<sup>th</sup> Convocation Ceremony

The 24<sup>th</sup> Convocation Ceremony of the University was organised on 22<sup>nd</sup> April, 2022. The function was presided over by of Shri. Bhagat Singh Koshyari, Hon. Governor, Maharashtra State and Chancellor of University and in the presence of Shri Dadaji Bhuse, Hon. Agriculture Minister, Govt. of Maharashtra. For this function, Dr. Narendra Singh Rathore, Hon. Vice Chancellor, Maharana Pratap Agriculture and Technology University, Udaipur (Rajasthan), Dr. Ashok Dhawan, Hon. Vice-Chancellor, Dr. Vilas Bhale, Hon. Vice-Chancellor, Dr. PDKV, Akola, Dr. Prashantkumar Patil, Hon. Vice-Chancellor, MPKV, Rahuri, Dr. Rahul Patil, MLA, Dr. Rajiv Marathe, Director, ICAR-NRCP, Solapur, Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmraj Gokhale, DI and Dean (F/A), Dr. Devrao Devsarkar, Director Extension Education, Dr. Dheerajkumar Kadam, Registrar were also present. Large number of students, officials and progressive farmers attended the function. During this convocation, degree was awarded to 3842 graduates, 359 post graduates and 49 doctorates students.

Hon. Shri. Bhagat Singh ji Koshyari, Hon. Chancellor expressed that India achieved the target food production due to agricultural technologies and exporting the various food grains with fruits. He also insisted that agricultural graduates should contribute in Self-sufficient India Movement (Atmanirbhar Bharat). He expressed that this University has contributed significantly in digital farming. Hon. Shri. Dadaji Bhuse, Minister (Agri.) expressed that University should develop technologies suitable to changing climatic condition. He also expressed that this University has developed various varieties of different crops, implements and production technologies since inception of the university and contributed in the agricultural development of the state. He said that agricultural graduates should work for the welfare of the farming community. Dr. Narendra singh Rathore, in his convocation address expressed that University has completed 50 years and celebrating golden jubilee this year. University has significantly contributed in research, education and technology dissemination. He also expressed that looking to the future need of skilled manpower in agriculture, University should take appropriate action plan.







## Campus Placement

University organized campus interviews from M/S Ambition Fertilizers, Nanded for recruitment of fresh candidates. Shri. Shivprasad Dhanorkar conducted campus interview and evaluated the candidates. Total 38 graduate and post-graduate students appeared for this interview. 22 students were selected for appointment in research and development, and marketing area. Dr. P.R.Zanwar, Dr. Ranjeet Chavan, Dr. S.R. Jakkawad, Dr. Suresh Waikar, Dr. Milind Sonkamble and Dr. Pravin Kapse were involved under the guidance of Dr. Syed Ismail, Associate Dean and Principal, College of Agriculture, VNMKV, Parbhani.







Speech of Dr. Gajendra Singh, Former Vice-Chancellor, Doon University, Dehradun  
Former DDG (Eng), ICAR, New Delhi



Launching Programme of Common Incubation Centre under PMFME, MOFPI, New Delhi  
at College of Food Technology, VNMKV, Parbhani



VNMKV Student Training at ICRISAT, Hyderabad



## 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, indiatat.com service for information services.

### Reading material

(a) Books	:	88999
(b) Back volumes of periodicals	:	17142
(c) Theses, dissertations	:	9579
<b>Total collection</b>	:	<b>115720</b>

### Journals

(a) Journals subscribed	:	14
(b) Journals on gratis	:	110
(c) Journals (LM)	:	18
<b>Total journals</b>	:	<b>142</b>

### Library Membership

(a) Students	:	717
(b) Teaching and Other staff	:	30
(c) Temporary members	:	02
<b>Total Library Members</b>	:	<b>749</b>



## **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 are available 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

To uplift socio-economic conditions of farmers of Marathwada region, Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani is mainly engaged in Education, Research and Extension work of Agricultural and allied subjects. At the same time, University is also working for physical, mental and intellectual development of the students admitted in various UG, PG and Ph.D. courses. This work is carried out through Student Welfare office in the University. The office is actively engaged in various activities which improve the sports, arts, leadership etc. skills of the students by organizing inter-college sports tournament, inter-college cultural competition, yoga day, inter-college research festival, disaster management training and various programs of NSS. This office has excellent facility of out-door and in-door games, theater and gymnasium. This office has experienced faculty members to train students for sports and cultural activities.

### Gymnasium Facility

In main campus of the university, modern gymnasium facility is provided to UG, PG and Ph.D. students of five agricultural and allied colleges viz; College of Agriculture, College of Horticulture, College of Community Science., College of Food Technology and College of Agricultural Engineering and Technology. Separate gymnasium facility is established at Rajmata Jijau hostel for girls' students. This facility will improve students' health and physical strength and enhance their performance in sports and cultural activities.

### Outdoor Sport facilities

In the University sports complex below mentioned sports facility are available for boys and girls students.

Sr.No.	Types of Sports/Event	No. Ground/Court
1.	Kabaddi	04
2.	Volleyball	04
3.	Kho-Kho	04
4.	Basketball	02
5.	Running Track 400 M with 10 line	01
6.	Auditorium	01
7.	Badminton court	02
8.	Yoga Ground	01

### Indoor games facilities

This office has excellent auditorium for all cultural activities. In-door facilities viz; Badminton, Table Tennis, Chess, Carom etc are also available for students. All inter-college tournaments are regularly held at this office. These in-door facilities are utilized during all major sports and cultural events like Krida Mahotsav, Indradhanushya, Avhan and Avishkar.

### Youth Festival

Student Welfare Office annually organizes inter-college youth festival. During this year festival was organized at College of Agriculture, Selu. During the youth festival, students have participated in five major categories viz, Folk dance, Fine art, Music, Theater, Literary.

### Sports Meet Organization

Student Welfare Office annually organizes inter-college sports festival. During this year inter college sports competition for boys and girls was organized in table tennis, badminton, kho-kho, kabaddi, chess, basketball, Athletics, volleyball at various government and private agriculture and allied colleges.

### Participation in Sports and Cultural Activity

University team has taken participation in all major sports, cultural and NSS events. These are as follows.

Sr.No.	Name of the Event	Place	Remarks
01	Krida Mohatshav	Dr. Babasaheb Ambedkar University, Aurangabad	--
02	Indradhanushya Youth Festial	Mahatma Phule Krishi Vidyapeeth, Rahuri	Bronze in Quiz Sliver in Mime Sliver in Cartoon
03	Aavhan	Bahinabai Chaudhari Uttar Maharashtra Vidyapeeth, Jalgaon	--
04	Avishkar – A Research Festival	Savitribai Phule University, Pune	--
05	ICAR Sports Meet – Agri-Sport Meet	CCS Agriculture University, Hissar, Haryana	Gold Medal in Volleyball
06	ICAR- Agri-Unifest	University of Agriculture Sciences, Bangalore, Karnataka	Gold Medal-Poster Gold Medal-Cartooning Bronze - Collage
07	West Zone Inter University tournament for Volleyball (Women)	Sant Gadgebaba Amravati University, Amravati	--
08	AIU-West Zone-Badminton	Swami Ramanand Teerth Marathwada University, Nanded	--
09	AIU- West Zone Woodball	JagannathUniversity, Jaipur, Rajasthan	Silver Medal
10	AIU-West Zone Youth Festival	Ganpat University, Mehsana, Gujarat	Gold Medal in Mehendi
11	AIU-National Youth Festival	Jain University, Banglore, Karnataka	Brone Medal in Mehendi
12	NSS- Adventure Camp	Sant Gadgebaba Vidyapeeth, Amravati	--
13	NSS-National Integration Camp	Narsapur, Dist Godavari ShriY.N. College Autonomos	--



### National Service Scheme

In the year 2022-23, total 3100 volunteers were registered from 52 Agriculture and allied colleges in Marathwada region. These volunteers have conducted very useful programs which are beneficial for societies especially for rural youth, farmers and women. The majors program were transfer of improved agricultural technologies to farmers, yoga day, disaster management training programme, personality development training programme, tree plantation, blood donation camp, clean campus-green campus etc.

### Celebration of Jayanti

This office has responsibility to celebrate all jayanties at university level. 19th February, 2023 was have celebrated Chatrapati Shivaji Maharaj Jayanti & on 14th April, 2023 office has celebrated Bharatratna Dr. Babasaheb Ambedkar Jayanti. To impart Yoga skills in the youth, office has organized international Yoga Day on 21st June, 2022.

This office has actively taken responsibilities and made all necessary arrangement of Flag Hosting viz. 26th January, 1st May, 15th August and 17th September in the year.



## Student Activities - Sports and Cultural Events





## Student Activities - Sports and Cultural Events





## Student Activities - Sports and Cultural Events



## 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 (13 to 15 June) in all districts of Marathwada. All districts in Marathwada during July and September month was recorded the more rainfall as compare to normal rainfall except Parbhani & Hingoli districts where as during September month was witnessed with less rainfall than normal. The August month was found deficient rainfall in all districts of Marathwada region. Most parts of region the sowing rains were recorded during the June and accordingly sowing were undertaken during 15 June to 1st week of July. The seasonal maximum rainfall 1156.8 mm with 76 rainy days and the lowest rainfall 759.3 mm in 70 rainy days were recorded in Nanded and Parbhani districts, respectively.

Over all, Marathwada region recorded 914.6 mm seasonal rainfall with 74 rainy days which was more than normal rainfall by 21.8%. The withdrawal of monsoon was noticed during third week of October.

**Rainfall :** During the period of June to October 2022 in Marathwada region, 914.6 mm rainfall was recorded and it was more than 21.8 % to the normal. Nanded and Chhatrapati Sambhaji Nagar districts of this region recorded the highest 1156.8mm and lowest 797.3 mm rainfall, respectively.

### Weather Condition At Parbhani station

- 1) **Rainfall :** During the period of June to October 2022 at Parbhani station, 1052.5 mm rainfall was recorded and it was more than 22.6 % to the normal.
- 2) **Temperature :** The average highest maximum temperature 42.4 °C was recorded during 18th SMW and lowest maximum temperature 26.1 °C in 4th SMW whereas average highest minimum temperature 26.3 °C was recorded during 23rd SMW and lowest minimum temperature 8.0 °C in 5th SMW.
- 3) **Relative Humidity:** The average weekly morning and afternoon relative humidity ranged between 39 to 94 and 08 to 87 %, respectively.



- 4) **Sunshine** : The average highest sunshine hours 10.0 hrs. was recorded during 18th SMW and lowest sunshine hrs 1.4 hrs. in 30th SMW, respectively.
- 5) **Wind speed** : The average highest wind speed 7.8 kmph was recorded during 04th SMW and lowest sunshine hours 1.8 kmph in 52nd SMW, respectively.

**Rainfall - 2022** : The normal and actual seasonal rainfall (June to October) 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	Chhatrapati Sambhaji	637.5	797.3	25.1
2	Jalna	663.2	950.7	43.4
3	Beed	638.9	810.4	26.8
4	Latur	791.6	886.9	12.0
5	Dharashiv	685.5	831.8	21.3
6	Nanded	891.3	1156.8	29.8
7	Parbhani	838.9	759.3	-9.5
8	Hingoli	859.6	1045.1	21.6
<b>Marathwada</b>		750.8	914.6	21.8

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

“Gramin Krishi Mausam Sewa (GKMS)” Scheme is working under VNMKV, Parbhan. District Agromet Advisory Bulletin (AAB) is regularly preparing on every Tuesday and Friday Nine blocks in Parbhani district & Six districts of Marathwada region.

1. 105 AAB were prepared for all 06 districts in Marathwada region & 09 blocks in Parbhani district and disseminated to the farmers by direct contact and through various platform of mass media communication during the 2022-23.
2. The Agromet Advisory Bulletin was broadcasted daily on all India Radio of Parbhani, Nanded and Beed for respective districts & FM station Latur & Parbhani.
3. The same Agromet Advisory Bulletins was disseminated to all farmers club through different KVK's of Marathwada.
4. It was also sent through SMS on farmers mobile by KVK's of Marathwada.
5. AAB was also available on IMD Website ([www.imdagrimet.gov.in](http://www.imdagrimet.gov.in)) and on VNMKV, Parbhani Website [www.mkv2.mah.nic.in](http://www.mkv2.mah.nic.in) or <http://www.vnmkv.ac.in>.
6. AAB was also disseminated to the farmers by Whats app, university Blog, SMS by mkisan, Facebook, SMS by Mahindra Kisan and Reliance foundation etc.
7. 12,66,833 farmers in Marathwada benefited through Mkisan portal by AMFU Parbhani.

## Research Findings-2022

Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri hosted the Joint Agricultural Research Committee Meeting (JOINT AGRESCO) during December 14-16, 2022 in collaboration with all State Agricultural Universities of Maharashtra and Maharashtra Council of Agricultural Education and Research, Pune. The details crop varieties and implement released along with specific recommendations on production technology, rainwater management, value addition based on research work are as under,

### Release of Variety:

#### Soybean (MAUS 731):

Soybean variety MAUS 731 recorded higher seed yield over local and national checks. It was found moderately resistant to various pests and diseases. Hence, the soybean variety MAUS 731 is recommended to release for its cultivation in Marathwada region.

### Technologies recommended

1. Application of fertilizer dose 120:60:60 NPK kg ha<sup>-1</sup> to cotton hybrid NHH 44 (BG II) along with opening of furrows at 60 DAS is recommended for higher seed cotton yield and profitable returns in Marathwada region under rainfed condition.
2. Intercropping of Green gram in arboreum cotton (1:1) is recommended for higher seed cotton equivalent yield and profitable returns of organic cotton whereas seed treatment of biofertilizers + application of neem cake @ 250 kg ha<sup>-1</sup> in soil at sowing + in-situ green manuring of sunhemp @ 50 kg seed ha<sup>-1</sup> in desi cotton is recommended for soil enrichment under organic farming conditions in Marathwada region.
3. Spacing of 120 x 45 cm (18,518 plants ha<sup>-1</sup>) for Bt cotton hybrids is recommended for sowing at onset of monsoon and spacing of 90 x 45 cm (24,691 plants ha<sup>-1</sup>) is recommended if sowing is delayed by 2 weeks after onset of monsoon for higher and profitable yield under rainfed condition in Marathwada region.
4. For higher seed cotton yield and economic returns Paired row planting (150: 75 X 30 cm) and de-topping of apical bud at 75 DAS is recommended for irrigated Bt Cotton for Marathwada region.
5. Farm pond sizes of storage capacity of 837 cum 1539 cum and 2457 cum are recommended for catchment area of 1 ha, 2 ha and 3 ha respectively for assured rainfall zone of Marathwada region under changing climatic condition. Based on storage capacity, the square shaped farm ponds of sizes 21 x 21 m, 27 x 27 m and 33 x 33 m (top dimensions) with depth of 3 m and side slope of 1.5 : 1 (Trapezoidal shape) are recommended for further implementation of farm pond programme in the region.
6. Rainfed Integrated Farming System Model of 1.0 ha comprising of cropping system (0.60 ha), fodder crops (0.12 ha), fruit crops (0.16 ha), goatary (7+1) and poultry (100 Deshi birds) is recommended for getting higher economics return to small and marginal farmers of Marathwada region.

## Variety Released



Soybean - MAUS 731

## Technologies Recommended



Opening of Furrow Technique in Cotton



Intercropping of Green Gram



Integrated Farming System



### Rainfed Integrated Farming System model include following components

Components	Area (ha)
<b>Crops and cropping system</b>	
Soybean – <i>Rabi</i> Sorghum	0.15
Soybean – Chickpea	0.15
Soybean +Pigeonpea	0.15
Cotton + Soybean	0.15
<b>Fodder</b>	
Marvel/ Stylo and Dashrath	0.12
<b>Rainfed fruit crops</b>	
Mango	0.08
Custard apple	0.08
<b>Livestock units</b>	
Goat keeping (7+ 1)	0.05
Poultry (100 <i>Deshi</i> birds)	
<b>Farm pond</b>	0.07
<b>Total</b>	1.00

- For obtaining higher productivity and economical returns, Soybean + Pigeonpea Strip cropping of 18.9 m width (18:12 rows strip) with mechanization (sowing to harvesting) is recommended for rainfed area of Marathwada region.
- In order to obtain higher soybean equivalent yield, gross monetary returns, net monetary returns, to adopt cluster bean – carrot – coriander cropping system under irrigated condition for Marathwada region.
- For obtaining higher yield and net monetary returns in soybean – chickpea cropping system under organic weed management with stale seed bed, reduced spacing (30 cm), soybean straw (2 tonnes) and one hand weeding at 25 DAS to control weeds is recommended for Marathwada region.
- For higher yield and profitability of sweet corn- chickpea cropping sequence, sowing of sweet corn at 60 cm x 20 cm during kharif season followed by chickpea at 30 cm x 10 cm spacing during rabi season along with application of 180:70:70 kg NPK per hectare to sweet corn crop only (chickpea on residual nutrients after sweet corn) and seed treatment with Azotobacter to sweet corn / Rhizobium to chick pea + PSB and KSB @ 10 ml per kg seed to sweet corn and chickpea is recommended for Marathwada region.
- It is recommended to spray 2 per cent urea at 45 days after sowing along with recommended dose of fertilizer (100:50:50 NPK kg / ha) on single cut kharif forage sorghum to obtain higher fodder yield, good quality fodder and monetary returns.
- “For obtaining higher productivity, sustainability, employment generation from 1.0 ha. irrigated integrated farming system model, comprising of various enterprises i.e. cropping system (0.46 ha), fodder crops (0.15) horticulture (0.20 ha.), spices (0.10 ha), boundary plantation (0.04 ha), dairy, goatary and vermicompost (0.05 ha) found remunerative for the small and marginal farmers of Marathwada region.”

## Technologies Recommended



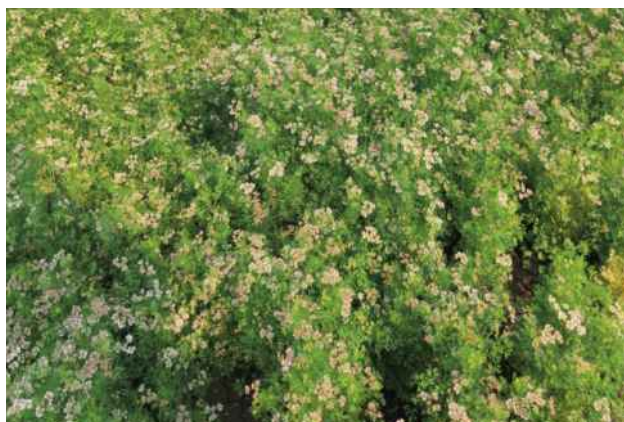
Cotton Spacing 120 x 45 cm



Mechanization in Pigeonpea



Integrated Farming System



Ajwain Production Technology



Rabi Sorghum Production Technology



Gram Production Technology

**The integrated farming system model include following enterprises**

Component	Area (ha)
<b>Cropping System</b>	
Soybean - Rabi Sorghum	0.10
Bt. Cotton	0.10
Maize - Gram	0.10
Green gram - Onion	0.16
Lucerne	0.075
Hybrid Napier - (Elephant grass)	0.075
<b>Horticulture</b>	
Kagzi lime	0.20
Spices: Turmeric	0.10
<b>Boundary plantation</b>	0.04
Drum stick – <i>Moringa oleifera</i> L.	
Anjan - <i>Hardwickia binnata</i> L.	
Karonda – <i>Carissa carandas</i> L.	
<b>Dairy</b>	0.05
Crossbred Holdev – 2 Nos.	
<b>Goatary</b>	
Goat : Osmanabadi (10F+1M)	
<b>Vermicomposting Unit</b>	
<b>Total area</b>	<b>1.00</b>

13. For maximum yield and economic returns of banana recommended (200:160:200) dose of 70% water soluble fertilizer with given schedule be applied through drip is recommended under Marathwada region.

**Recommended fertigation schedule for banana:**

Sr. No.	Time of Fertigation (Weeks after planting)	Fertilizer (kg / 1000 Plant / Week)		
		Urea	Monoammonium phosphate 12:61:00	Sulphate of potash 00:00:50
1	1 to 10	6.00	18.00	4.00
2	11 to 21	12.00	-	4.00
3	22 to 32	5.00	-	8.00
4	33 to 43	7.00	-	12.00

14. For the management of defoliators (semiloopers & tobacco leaf eating caterpillar) of soybean, two sprays of microbial biopesticide, Metarhizium (*Nomuraea*) rileyi (1 x 10<sup>8</sup> CFU/ml) or Beauveria bassiana (1 x 10<sup>8</sup> CFU/ml) @ 2 lit/ha (500 lit water/ha) at the interval of 10 days is recommended after crossing economic threshold level (ETL).
15. Seed treatment with Cyantraniliprole 19.8% FS +Thiamethoxam 19.8% (6 ml/Kg seed) followed by foliar application of Chlorantraniliprole 18.5% SC (3 ml/10 lit. water) or Spinetoram 11.7% SC (5 ml/10 lit. water) 30 days after emergence is recommended for management of fall army worm on rabi sorghum.



## Technologies Recommended



Sunflower Production Technology



Management of Semi Loopers and Tobacco leaf Eating Caterpillars



Disease (*Karpa*) Management in Banana



Management of Fall Army Worm in Rabi Sorghum

16. In organically grown soybean for effective and economical management of pod blight, anthracnose (on leaves) and charcoal rot (stem) the soil application of *Trichoderma harzianum* @ 5kg/ha (before sowing), seed treatment @ 10 gm/kg of seed and 2% foliar spray is recommended.
17. In organically grown gram for effective and economical management of *Fusarium* wilt, *Sclerotium* and *Rhizoctonia* rot the soil application of *Trichoderma asperellum* @ 5kg/ha (before sowing) and seed treatment @ 10 gm/kg of seed is recommended.
18. “It is recommended to use Real time PCR based ‘VNMKV-BSV-Detect’ kit for precise detection of Banana Streak Virus (BSV) in tissue culture raised banana plantlets”
19. The supplementation of 0.5% black cumin and 0.5% dried garlic mash in the basal diet of Kaveri poultry is recommended for improving the weight gain, feed conversion efficiency, carcass quality, hematological parameters, blood protein, albumin, globulin, high density lipoprotein and decreasing the serum total cholesterol, triglyceride, glucose, low density lipoprotein
20. VNMKV developed bullock and tractor drawn package of implements is recommended to save seed cost, time, cost of operation, reduce drudgery and increasing yield for soybean crop.
21. Styrene-Butadiene rubber interventions (Chassis and Engine Foundation) with soft foam hand grips for handle are recommended for reduction in hand arm vibrations and reduce drudgery in operation, while operating engine weeder with straight/Rotary blade.
22. VNMKV developed crop coefficients or polynomial equations are recommended for estimation of week wise water requirement after sowing of kharif Green gram, rabi sorghum, summer groundnut and summer okra under Parbhani condition.

#### Week wise Crop coefficients :

Kharif Green gram			Rabi Sorghum			Summer Groundnut			Summer Okra		
MW	WAS	Modified Kc	MW	WAS	Modified Kc	MW	WAS	Modified Kc	MW	WAP	Modified Kc
29	0	0.58	42	0	0.40	5	0	0.62	5	0	0.61
30	1	0.62	43	1	0.44	6	1	0.62	6	1	0.64
31	2	0.62	44	2	0.50	7	2	0.63	7	2	0.69
32	3	0.82	45	3	0.51	8	3	0.65	8	3	0.81
33	4	1.01	46	4	0.65	9	4	0.70	9	4	0.96
34	5	1.15	47	5	0.80	10	5	0.82	10	5	1.09
35	6	1.20	48	6	0.97	11	6	0.96	11	6	1.20
36	7	1.18	49	7	1.10	12	7	1.09	12	7	1.31
37	8	1.06	50	8	1.20	13	8	1.21	13	8	1.38
38	9	0.88	51	9	1.28	14	9	1.30	14	9	1.41
39	10	0.45	52	10	1.31	15	10	1.37	15	10	1.40
WAS : week after sowing  WAP : Week after planting			1	11	1.27	16	11	1.41	16	11	1.35
			2	12	1.27	17	12	1.41	17	12	1.28
			3	13	1.24	18	13	1.38	18	13	1.18
			4	14	1.19	19	14	1.32	19	14	1.06
			5	15	1.15	20	15	1.25	20	15	0.96
			6	16	0.9	21	16	1.00	21	16	0.64
			7	17	0.6	22	17	0.98			



## Technologies Recommended



VNMKV-BSV-DETECT Kit



Rubber Handles for Reducing Vibrations



Soyanut Nutri Chikki



Nutritious Juice



Nutritious Khakhra



Nutri Bar



### Crop wise Polynomial equations to derive crop coefficients

Sr.No.	Crop	Polynomial Equation	R <sup>2</sup>
1	Kharif greengram,	$Y = 5.551(t/T)^5 - 8.438(t/T)^4 - 3.202(t/T)^3 + 6.934(t/T)^2 - 0.889(t/T) + 0.603$	0.99
2	Rabi Sorghum	$Y = -71.76(t/T)^6 + 200.4(t/T)^5 - 201.9(t/T)^4 + 81.81(t/T)^3 - 9.282(t/T)^2 + 0.827(t/T) + 0.401$	0.99
3	Summer Groundnut	$Y = -81.57(t/T)^6 + 234.0(t/T)^5 - 251.0(t/T)^4 + 116.9(t/T)^3 - 19.58(t/T)^2 + 1.178(t/T) + 0.607$	0.99
4	Summer Okra	$Y = -14.35(t/T)^5 + 40.33(t/T)^4 - 43.89(t/T)^3 + 19.38(t/T)^2 - 1.418(t/T) + 0.636$	0.99
<b>Where : Y : Crop Coefficient , t = Days after sowing/planting , T = Crop Period</b>			

23. VNMKV developed process technology for the production of fortified soynut-chikki of 1 cm thickness, prepared with Jagary:soynuts ratio of 60:40, with fortification of groundnut meal 75 gm/kg having shelf life of 120 days packed in Metalized polyester pouches at ambient temperature is recommended.
24. The tabular information and maps developed in Geographical Information System (GIS) by VNMKV, Parbhani for all tahsils of Marathwada are recommended for estimating weekly water and irrigation requirement of Bt.Cotton, Green gram and Soybean crops by surface and drip methods for irrigation planning and scheduling
25. It is recommended that good quality Instant vegan beverage powder is prepared by using rolled oat and date in the ratio 60:40, 15% maltodextrin and 2% vanilla flavour.
26. It is recommended that good quality nutri-beverage mix is prepared by addition of roasted finger millet flour, whole wheat flour and horsegram malt flour in the ratio of 3:1:3.
27. For the preparation of nutritious and organoleptically accepted khakhra, the incorporation of 10 per cent dried mixed green leafy vegetables containing fenugreek, amaranth and roselle leaves (1:1:1) is recommended.
28. It is recommended that good organoleptic quality, nutritious mixed fruit bar is prepared from mixed fruit pulp (60% mango and 40% guava pulp) fortified with 5% whey protein concentrate.
29. It is recommended to use Rice: Black gram: Finger millet: Foxtail millet in the proportion of 40:20:20:20 to prepare instant appe mix powder for a good organoleptic quality, nutritious, specially rich in minerals and fiber content appe.
30. For good nutritional and sensory quality of bread, utilization of 3 per cent bitter gourd powder in its preparation and storage for five days at room temperature is recommended.
31. It is recommended to use the Rice flour : Sorghum flour : Sugar : Green gram malt : Ragi malt in the proportion of 55:10:15:10:10 for preparation of low density nutritious food.
32. Roti prepared from sorghum variety Parbhani Super Motiflour with particle size of 250 µm is stored for 1 day at room temperature (27±30°C) and 7 days at refrigerated temperature is recommended.
33. It is recommended that instant tomato soup powder with improved soluble dietary fiber is prepared by incorporation of 15 per cent partially hydrolyzed guar gum (PHGG).

## Technologies Recommended



Appe Preparation from Instant Appe Mix Powder



Tomato Soup Powder



Diet Food for *Kaveri* Poultry

34. It is recommended that to create awareness about promotion of healthy TV viewing habits, parent-child education programmes need to be organized by all the schools to avoid its detrimental effects on children.
35. It is recommended that even though the maternal employment was found to be beneficial, as these mothers were unable to give enough time for child upbringing, their family members need to be involved in childcare and share family responsibilities.
36. An effective intervention implemented for promoting child's wholesome development by VNMKV Parbhani on "Home Environment and Parenting Styles to agrarian parents" is recommended for the use by the Dept. of women and child welfare.
37. Utilization of multimillet flour is recommended for the development of value added snacks such as Shev, Chakli, Khari boondi, and Kharapara.
38. The developed low GI mix (Jowar flour, Bengal gram flour, Soyabean flour, Horse gram flour, tomato powder, garlic, coriander, cumin seed powder and chilli powder 30:20:20:20:4:2:2:1:1) is helpful in decreasing HbA1C values hence recommended to include in daily diet of prediabetic person.
39. To improve the posture of high school going students, it is recommended to use backpacks having shoulder belts distant from each other (6") and positioning at middle of back.
40. For increasing income of bajra growers it is recommended to create awareness among the customers about high Iron and Zinc content Bio fortified pearl millet hybrid AHB -1200 through extension system.
41. Farmers from Marathwada region have a favourable attitude towards digital marketing of agricultural produce, So, it is recommended that the State Department of Agriculture, Agricultural University and commercial marketing firms jointly develop a digital marketing platform and organize training program for farmers on digital marketing.
42. In view of less productivity and medium to high instability of kharif sorghum, rabi sorghum, soybean, groundnut, sunflower and linseed in Marathwada region, it is recommended that research and extension agencies in state to concentrate on these crops to enhance the productivity with sustainability.
43. The technology adoption index of soybean in respect of variety, weed management, plant protection and fertilizer management was found very low in Marathwada region. Hence for maximization of soybean output & profitability, it is recommended to adopt improved soybean production technologies released by VNMKV, Parbhani such as variety, weed management, plant protection and fertilizer management etc.



## Organization of Trainings/ Crop Days/ Field Days / Farmers Rally

1. On the occasion of 38th foundation day of CRIDA, Hyderabad Shri. Laxman Vitthal Dhotre, Progressive Farmer, Ujalamba village of Parbhani district was felicitated at CRIDA, Hyderabad on 25th April, 2022. Shri. Dhotre was honored for his significant contribution in dryland farming technology adaption. These technologies were developed by University such as use of BBF planter for sowing soybean crop, spraying of potassium nitrate etc. and extension of such technologies among farming community of nearby villages. For this program, Dr. Guru Bachan Singh, Former Chairman, ASRB, New Delhi, Dr. V. K. Singh, Director, CRIDA, Hyderabad, Dr. B. Venkateswarlu, Former Vice Chancellor, VNMKV, Parbhani, Dr. Ravindra Chari, Project Coordinator were present.
2. Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani and Department of Agriculture (MS) jointly organized Kharif Farmers Rally on 18th May, 2022 on the occasion of Golden Jubilee University Foundation Day. The rally was inaugurated at the hands of Dr. Subhash Puri, Former Vice-Chancellor, MPKV, Rahuri and Central Agriculture University, Imphal. This program was presided over by Dr. Pramod Yeole, Hon. Vice-Chancellor, VNMKV, Parbhani. In this program, Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmraj Gokhale, Director Instructions and Dean, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Dhirajkumar Kadam, Registrar, Shri. Revansiddha Lamture, Progressive farmer, Dr. Prashant Deshmukh, Chief Extension Officer were also participated. In this program, Shetinishth Shetkari awardee farmers were felicitated by the dignitaries. University scientists guided the participants regarding Kharif crop production technologies. Large Farmers visited the exhibition. Large number of farmers, extension workers were participated in Shetkari Melava.
3. The 71st Zonal Research and Extension Advisory Committee (ZREAC) meeting was held on 30th May, 2022 under the Chairmanship of Dr. Pramod Yeole, Hon. Vice Chancellor, Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani at National Agriculture Research Project, Aurangabad. During this meeting, the issues regarding Kharif 2022 season were discussed. Dr. Dattaprasad Waskar, Director of Research, VNMKV, Parbhani presented the research activities and Dr. Deorao Devsarkar, Director of Extension Education, VNMKV, Parbhani presented the extension activities conducted by the University. Officers from State Govt. also presented their presentations. Scientists from Agriculture University and farmers were present for this meeting.
4. Dryland Integrated Farming System, AICRP on Dryland Agriculture, VNMKV, Parbhani organized Pre Kharif planning meeting and workshop on June 10, 2022 for farmers of Aadgaon village. This meeting was presided over by Dr. Dattaprasad Waskar, Director of Research, VNMKV, Parbhani. In this programme, Shri. Balasaheb Dhole, Sarpanch, Aadgaon, Dr. Wasudev Narkhede, Shri. Raosaheb Raut, Dr. Madan Pendke were also present for this meeting. The seed bags of improved varieties of Soybean, Tur, Mung, Kharif Sorghum were distributed among the farmers. Large number of farmers from Aadgaon Tq. Palam Dist. Parbhani were attended the workshop.
5. As per the directives of the Govt. of Maharashtra, the Majha Ek Divas Majha Baliraja Sathi (My One Day for My Farmers) campaign organized by Vasantnao Naik Marathwada Krishi Vidyapeeth, Parbhani which was inaugurated at the hands of Dr. Indra Mani, Vice-Chancellor of the University on 1st September, 2022. In this campaign, University's faculty, scientists working at various Research Stations Krishi Vigyan Kendra, and Colleges visited more than 60 villages and spent whole day with the farmers. Scientists guided the

- farmers on various topics such as insect and disease management, rabi crop planning, present situation crop planning, digital farming, BBF technology, drone based spraying etc. University scientists also answered the queries related various problems faced by the farmers. Twenty-two teams of university scientists formed for the entire Marathwada region and more than 80 scientists participated in the campaign. They guided more than 2000 farmers of 60 villages. Vice-Chancellor Dr. Indra Mani flagged off the vehicles of the university scientists at Parbhani Campus. Under this campaign, Farmer Scientist Interaction programmes were organized at Adagaon and Shaikh Rajur village in Palam Taluka which was presided over by Dr. Dattaprasad Waskar, Director of Research. Dr. S. P. Mehtre, Soybean Breeder, Dr. M. S. Pendke, Dr. R. S. Jadhav, Shri R. L. Aundhekar and farmers from Adagaon and Shaikh Rajur village participated in the interaction.
6. Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani and Department of Agriculture jointly organized Rabi Farmers Rally on 17th September, 2022 on the occasion of Marathwada Mukti Sangram Din. This program was presided over by Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani and Dr. Vedprakash Patil Former Vice Chancellor was chief guest. For this program, Dr. Rajendar Barwale, Chairman, Mahyco, Mrs. Meghanatai Bordikar, MLA, Jintur, Shri Dada Lad, Progressive Farmer were also present. In this function, Adv. Suresh Jadhav, Ex. MP, Dr. Dharmraj Gokhale, Director Instructions and Dean, Dr. Dattaprasad Waskar, Director of Research, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Dheerajkumar Kadam, Registrar, Shri. Vijay Lokhande, District Superintendent Agriculture Officer, Parbhani, Shri R. S. Patil, SDO were also present. In technical session, University Scientists guided the farmers on production technologies of rabi crops. The exhibition stalls of agricultural technologies and Seed sale counter of VNMKV released varieties also inaugurated by dignitaries. Large number of farmers attended the rally.
  7. On 24th September, 2022 Hon. Agriculture Minister Shri. Abdul Sattar visited the exhibition organized by Agricultural Technology Information Center (ATIC), VNMKV Parbhani. On this occasion Dr. Indra Mani, Hon. Vice-Chancellor, Adv. Suresh Jadhav, Ex. MP, Shri. Pravin Deshmukh, Executive Council Member, Dr. BSKKV, Dapoli, Dr. Dharmraj Gokhale, Director Instructions and Dean, Dr. Dattaprasad Waskar, Director of Research, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Dheerajkumar Kadam, Registrar, Joint Director Agriculture Dr. Sahebrao Divekar, Shri. Vijay Lokhande, District Superintendent Agriculture Officer, Parbhani, Dr. Gajanan Gadade were also present. Scientists, officials and farmers attended the program.
  8. District Silk Board, Department of Agriculture (MS) and Sericulture Research Scheme, VNMKV, Parbhani jointly organized Silk Production Demonstration and Training Programme for Field Officers of Department of Agriculture on 27th September, 2022. Dr. Dattaprasad Waskar, Director of Research, was chief guest and this program was presided over by Dr. Arun Jarhad, Deputy Collector. For this program, Shri. Vijay Lokhande, District Superintendent Agriculture Officer, Parbhani, Dr. Sayed Ismail, Associate Dean and Principal, Shri. Ravi Harne, SDO, Shri. Govind Kadam, District Silk Development Officer, Dr. Purushottam Neharkar, Head, Dept. Of Agril. Entomology, Dr. Chandrakant Latpate, Officer In-charge were also present. In technical session, Dr. Chandrakant Latpate elaborated the mulberry cultivation and silk worm rearing. Taluka Agriculture Officers, Mandal Agriculture Officers, Agriculture Supervisors and Agriculture Assistant from Parbhani District participated in the training program.

9. Insecticide Resistant Management Project, Cotton Research Scheme, VNMKV, Parbhani celebrated World Cotton Day on October 07, 2022 at Tadlimla village, Tq. Dist. Parbhani. In this programme, group discussion with farmers and field visits were organized. The inputs (Neemark, Profenophos, Flonicamid) were distributed to the project beneficiary farmers. Dr. A. S. Jadhav, Officer Incharge, Dr. D. D. Patait, Project Coordinator, IRM Project addressed the participants.
10. All India Coordinated Sorghum Improvement Project, Sorghum Research Station, VNMKV, Parbhani organized Seed and Input Distribution Programme under Front Line Demonstration at Bramhapuri Tq. Dist. Parbhani on October 24, 2022. This program was presided over by Dr. Dattaprasad Waskar, Director of Research with auspicious presence of Shri Gaikwad, Mandal Krishi Adhikari. For this program, Dr. L. N. Jawale, Officer In Charge, Dr. K. D. Navghire, Dr. Mohd. Ilyas, Prof . Pritam Bhutda and large number farmers from Bramhapuri village were present.
11. All India Coordinated Sorghum Improvement Project, Sorghum Research Station, VNMKV, Parbhani organized Seed and Input Distribution Programme under Front Line Demonstration at Usmannagar Tq. Dist. Nanded on October 30, 2022. This programme was presided over by Dr. Dattaprasad Waskar, Director of Research with auspicious presence of Shri. Bhagwan Ghorband, Shri. Bhagirath Ghorband, Upsarpanch. For this program, Dr. L. N. Jawale, Officer In-Charge, Dr. K. D. Navghire, Dr. Mohd. Ilyas, Dr. Arvind Pandagale, Prof . Pritam Bhutda were also present. Large number farmers from Usmannagar village participated in programme.
12. The 25th meeting of Agricultural Research Council was held on November 15, 2022 in the Directorate of Research Meeting Hall, VNMKV, Parbhani. Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani, chaired the meeting. Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmraj Gokhale, Director of Instruction and Dean, Dr. Devrao Devsarkar, Director of Extension Education, were also present for the meeting. All Conveners, Associate Dean and Principals, Head of the Departments also attended the meeting. The recommendations from Vasant Rao Naik Marathwada Krishi Vidyapeeth arising out of the research program for the year 2020-21 and approved by the Joint Agresco were presented in detail by the Director of Research and confirmed by the house. The research priorities in the field of Agriculture, Food Science and Technology, Agricultural Engineering, Home Science, Bio-technology and Agri. Business Management faculty were discussed at length.
13. All India Coordinated Cotton Improvement Project, Cotton Research Station, Nanded organized Farmers rally and Input Distribution Programme under on December 01, 2022. This program was presided over by Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani with auspicious presence of Shri Bhagwat Devsarkar, Executive Council Member, Dr. Dattaprasad Waskar, Director of Research Dr. Devrao Devsarkar, Director of Extension Education, Dr. A. H. Prakash, Project Coordinator, Cotton Research Center, Coimbatore, Dr. Praphulla Lahane, Director, Mahabeej, Shri. Shivshankar Chawade, DSAO, Nanded, Dr. Khizer Baig, Cotton Specialist. Scientists, officials and farmers visited the research trials. Inputs were distributed to beneficiary farmers under SC sub plan and Front Line Demonstration.
14. Dr. Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli and Maharashtra Council of Agriculture Education and Research, Pune organized 50th Joint Agricultural Research and Development Committee (Joint Agresco-2021) meeting between 14th and 16th December, 2022 at Dr. BSKKV, Dapoli. The inaugural function was presided over by Shri. Abdulji Sattar, Hon. Minister (Agriculture) and Pro-Chancellor with the auspicious presence of Dr. Sanjay Sawant, Hon. Vice-Chancellor, Dr. BSKKV, Dapoli, Dr. Prashantkumar



- Patil, Hon. Vice-Chancellor, MPKV, Rahuri, Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani, Dr. Sharad Gadakh, Hon. Vice-Chancellor, Dr.PDKV, Akola, Shri. Eknath Dawale (IAS), Principle Secretary (Agriculture), Shri. Raosaheb Bhagde (IAS), Director General, MCAER, Pune. For this function, Dr. Harihar Kausadikar, Directors of Research, MCAER, Dr. Dattaprasad Waskar, Directors of Research, VNMKV, Parbhani, Dr. S. S. Mane, Directors of Research, Dr.PDKV, Akola, Dr. Sanjay Bhawe, Directors of Research, Dr.BSKKV, Dapoli with all Directors Instruction and Dean (F/A), Directors of Extension Education of four Agricultural Universities. Dr. Khizer Baig, Cotton Specialist, Cotton Research Station, Nanded was bestowed with Best Agriculture Scientist Award with the auspicious hands of Shri. Abdulji Sattar, Hon. Minister (Agriculture). The Plenary Session on December 16, 2022 was presided over by Dr. Sanjay Sawant, Hon. Vice-Chancellor, Dr.BSKKV, Dapoli. In this program, Scientist and retiring scientist were felicitated for their outstanding performance by the dignitaries. Books and leaflets from the Universities were published. More than 300 scientists were participated in this meeting. During this meeting, Soybean variety MAUS 731 and 42 recommendations of VNMKV, Parbhani were released.
15. AICRP on Utilization of Animal Energy, VNMKV, Parbhani and Shri. Chatrapati Shivaji Maharaj Goshala, Rani Sawargaon jointly organized inauguration of Custom Hiring Center for VNMKV developed bullock drawn implements on December 20, 2022. The inaugural function was presided over by Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani. The center was inaugurated at the hands of Smt. Anchal Goel, District Magistrate, Parbhani. Shri. Gopal Bhai Sutariya, Chairman, Bansi Geer Goshala, Ahmedabad was chief guest. Shri. Mayank Gandhi, Global Development Trust, Mumbai, Shri. Sunil Mansinhka, Member, Indian Animal Welfare Board and National Panchgavya Research Committee, Dr. Dattaprasad Waskar, Directors of Research, Shri. Sahebrao Divekar, Joint Director Agriculture, Dr. Uday Khodke, Associate Dean and Principal, Dr. Gajendra Londhe, Head, Shri. Vijay Lokhande, DSAO, Parbhani, Dr. Smita Solanki, Shri. Shivprasad Kore and Dr. Rahul Ramteke were also present. Large number of farmers attended the program.
  16. State level Krishi Mahotsava was organized at Sillod Dist. Aurangabad during January 01-05, 2023 under the guidance and concept of Shri Abdul Sattar, Hon. Agriculture Minister, Govt. of Maharashtra. Shri. Eknathji Shinde, Hon. Chief Minister of Maharashtra inaugurated the Krishi Mahotsava. For this function, Shri. Raosaheb Danve, Hon. Union Minister of State for Railways, Coal and Mines, Dr. Bhagwat Karad, Hon. Union Minister of State for Finance, Shri. Sandipan Bhumare, Hon. Minister of Employment Guarantee and Horticulture, Shri. Atul Save, Hon. Minister of Cooperation, Shri. Imtyaz Jalil, Hon. Member of Parliament, Shri. Eknath Dawle, (IAS), Principal Secretary, Govt. of Maharashtra, Shri. Sunil Chvhnan, Commissioner of Agriculture, Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani, Dr. Sharad Gadakh, Hon. Vice-Chancellor, Dr.PDKV, Akola, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmaraj Gokhale, Director Instruction and Dean, Dr. Dheerajkumar Kadam, Registrar also present. Hon. Chief Minister visited the exhibition stalls of VNMKV, Parbhani and appreciated the research work of the University. Large number of farmers, women farmers, students and extension workers were attended the Krishi Mahotsava.
  17. Directorate of Extension Education, College of Community Science, Parbhani, Mahila Arthik Vikas Mahamandal (MAVIM) and NABARD, Jalna jointly organized online Mahila Shetkari Melawa on the occasion of Savitribai Phule Jayanti, on January 03, 2023 at Krishi Vigyan Kendra, Badnapur. The function was presided over by Dr. Indra Mani, Hon. Vice-Chancellor and Annmata Mrs. Mamtabai Bhangre, Organic

## Field Visits / Kisan Mela





- farming activist was the chief guest. For this function, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmaraj Gokhale, Director Instruction and Dean, Dr. Jaya Bangale, Associate Dean and Principal, Dr. Rakesh Ahire, Associate Dean and Principal, Dr. D. K. Patil, Dr. Sanjay Patil, Dr. P. R. Deshmukh, Chief Extension Officer, Shri. Umesh Kahate, District Coordinator (MAVIM) and Dr. S. D. Somvanshi were also present. Dignitaries addressed the gathering during the programme. In this program, Dr. Smita Solanki, In-charge, AICRP on UAE was felicitated with Best Scientist Award at the hands of Hon. Vice Chancellor. Large number of women farmers, scientists were attended the online Shetkari Melawa.
18. Organic farming Research and Training Center, VNMKV, Parbhani organized field visit and discussion program (Shivar pheri) on January 13, 2023 at Daithna village, Tq. Dist. Parbhani. Dr. Dattaprasad Waskar, Director of Research, Dr. M. S. Pendke, Agri. Engineer, Dr. Anand Gore, Agronomist, Shri. Rushikesh Aundhekar and farmers from Daithna village participated in field visit. The team of scientist visited groundnut, chilli cultivation, gerbera plantation and guava plantation on farmers field. During discussion, issues like use of micro nutrients in organic farming, marketing, post-harvest technologies and cultivation of minor oilseed crops (linseed, sesamum and niger) were discussed. Large number of farmers participated in field visit.
  19. ICAR- Indian Institute of Oilseeds Research organized International Conference on Vegetable Oils (ICVO 2023) during January 17-21, 2023 at IIOR, Hyderabad. In this conference, progressive oilseeds grower farmers Shri. Sanjay Nade and Shri. Ashok Chinte were felicitated for their outstanding performance in linseed and safflower production. Since from last 3-4 years, both of them use to grow LSS-93 variety of linseed and PBNS-12 variety of safflower developed by VNMKV, Parbhani. Under the guidance of Dr. M. K. Ghodke, Oilseeds Specialist and his co-scientists they harness bumper yield using recommended package of practice. On this occasion, Dr. M. Sujatha, Director, IIOR, Dr. Satish Kumar, Dr. Sanjiv Gupta, Dr. R. K. Mathur were also present. Dr. Indra Mani, Hon. Vice-Chancellor and Dr. Dattaprasad Waskar, Director of Research congratulated both the farmers for their worthy contribution.
  20. Insecticide Resistance Management Technology Dissemination Project, Cotton Research Scheme, VNMKV, Parbhani organized One day farmer training and awareness programme at Takalgavhan Tq. Pathri Dist. Parbhani on January 25, 2023. The programme was presided over by Shri. Vajinath Mahipal, Sarpanch and Dr. Ashok Jadhav, Deputy Director of Research was cheif guest. Dr. Ramprasad Khandare, Officer Inchage, LTFE Scheme, Dr. Digambar Patait, Project Co-ordinator IRM and Dr. Prashant Jadhav were present for the programme. Informative calender was published at the hands of dignatories and distributed amnog the farmers. Progressive Farmer Shri. Babasaheb Raner, Village Development Officer Shri Rahul Manolikar, Mrs. Vijya Thenge, Reliance Foundation and Shri. Ganesh Giri along with large number of farmers and women farmers attended the programme.
  21. Sorghum Research Station, VNMKV, Parbhani organized field visit to rabi sorghum Front line demonstration at Pingli village, Dist. Parbhani on January 26, 2023. Dr. Dattaprasad Waskar, Director of Research and Dr. L.N. Jawle, Officer In-charge visited the demonstration plot on the field of Shri. Ramkisan Pawar. Farmers from Pingli village participated in field visit.
  22. AICRP on Utilization of Animal Energy, VNMKV, Parbhani organized five days training program on Agricultural Mechanization in Millets and Value Addition under SC Sub Plan during March 20-24, 2023. The program was presided over by Dr. Indra Mani, Hon. Vice Chancellor and inaugurated at the hands of



- Smt. Anchal Goel, District Magistrate, Parbhani. For this program, Dr. Dattaprasad Waskar, Director of Research, Dr. Uday Khodke, Associate Dean and Principal, Shri. Rathod, Dy. Commissioner, Parbhani Mahanagarpalika, Mrs. Deeparani Devatraj, Comptroller, Shri Mahesh Landhe, Chairman, Agro Zee Organics, Pune, Shri. Dnyaneshwar Mohite, Technical Advisor, PAANI Foundation, Smt. Ashvini Kulkarni, Pragati Abhiyan, Nasik were also present. More than 200 women farmers attended the training program.
23. Sorghum Research Station, VNMKV, Parbhani organized one day Training Program on Millets Production and Value Addition to celebrate the International Millets Year. This program was organized under Tribal Sub Plan (TSP) at tribal village Walkyachi Wadi. Tq. Himayatnagar Dist. Nanded on 23rd March, 2023. The program was presided over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani with auspicious presence of Dr. Devrao Deosarkar, Director of Extension Education, Dr. Gajendra Londhe, Deputy Director Research, Shri. D. N. Gaikwad, Tahsildar, Shri. D. V. Jadhav, Taluka Agriculture Officer. Large number of tribal farmers from Walkyachiwadi and nearby villages participated in this program.
24. Organic Farming Research and Training Centre, VNMKV, Parbhani organized three days State level Training Program for farmers during March 27-29, 2023. The inaugural program was presided over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani. Dr. Sunil Kumar, Director, ICAR-Indian Institute of Farming Systems Research, Modipuram, Meerut, Dr. Dhruvendra Kumar, Former Regional Director, Regional Center for Organic Farming, Nagpur, Dr. Dattaprasad Waskar, Director of Research, Dr. Dharmaraj Gokhale, Director Instruction and Dean, Dr. Syed Ismail, Associate Dean and Principal, Shri. Baliram Kacchave, Deputy Director-Agriculture, Shri. Sopanrao Awchar, Progressive farmer, Dr. Anand Gore, Principal Investigator also present. In technical session, scientists delivered lectures on various aspects related to Organic Farming. Large number of farmers, Subject matter specialists from KVKs, scientists, students, officers from State Agriculture Department and NGOs participated in training program.

## Organization of Training Programme in Organic Farming





## Organization of Training Programme in Organic Farming





### Training program organised by AICRP on UAE VNMKV Parbhani

Sr. No.	Date	Particulars	No. of Participants
1	25.01.2022	Training and demonstration to different state farmers and goshala owners of bullock operated rotary mode Agro processing unit machines at Devlapar Dist. Nagpur at Go Vigyan Anusandhan Kendra, Devlapar where the TRC center developed under UAE, Parbhani	42
2	8 and 9 March 2022	Offline training Program for SC-SP on eve of International Women's day AICRP on UAE VNMKV Parbhani organized two day training Programme on 'Farm Mechanization and Value Addition'	60
3	11 and 12 March 2022	AICRP on UAE organized two days training Programme for the SC-SP farmers regarding farm mechanization and value addition. Dr. Ashok Jadhav Dy. Director Res, Dr. C.B. Latpate and Dr. Rahul Ramteke ADP, Agricultural Engineering are the chief guest for the function	104
4	4.5.2022	AICRP on UAE and Parbhani Mahila Bachat Gat Nagri Sahakari Patsantha, Parbhani organize training program on mechanization 'Agri based employment through mechanization-Golden opportunity'	52
5	5.5.2022	AICRP on UAE, VNMKV, Parbhani organize interaction meet and training program with Parbhani District Goshala representatives and progressive farmer from Buldhana District. Shri. Bhanudasrao Vanre, regarding utilization of animal waste and development of bio-energy lab at Goshala	08
6	16.6.2022	Training and Distribution of the equipment under SCSP sub plan to the farmers of Bothi and Turati from Tq. Umri Dist. Nanded.	35
7	22.9.2022	Training or ganized in collaboration with KVK ParbhanifortheseedandfertilizervendorsofParbhaniTahsilregardingmechanizationinAgricultureandvalueaddition	42
8	27.9.2022	Training organized in collaboration with Krishi Mahavidyalay Pathri Dist Parbhani to the seed and fertilizer vendors of Pathri Tahsil.	32
9	8.11.2022	Organize field visit and training at Shri Chantrapati Shivaji Maharaj Goshala, Ranisawargaon Tq. Gangakhed Dist. Parbhani on the occasion of Programme directed by State Government and University of 'Ek Divas Balirajasathi'	32
10	29.4.2022	Training organized by KVK, Ambajogai, Dist. Beed in Mahila farmer self help groups regarding the use of bullock drawn mechanized implements developed by AICRP on UAE, VNMKV, Parbhani center.	23
11	10-12 Sept 2022	Repair maintenance and demonstration of rotary agro processing machineries under TRC also give field trial of ridger at Devlapar Dist Nagpur by Shri Yende and Shri Khating	18
12	13.10.2022	Training and Demonstration of the improved implements given under FLD programme at Sosokheda Tq. Dharni Dist Amravati through KVK	27

### Participation in various *Kisan Mela*:

Sr. No.	Date	Details of <i>KisanMela</i>	Number of visitors
1	6-9, May 2022	AICRP on UAE, VNMKV, Parbhani participated in Krishi Sanjivani State Level Exhibition 2022 at Parbhani and demonstrated various equipments developed under AICRP on UAE.	327
2	4.6.2022	Organization of Technology demonstration <i>Mela</i> in collaboration with State Agricultural Department, Parbhani. Demonstrated the five row BBF planter along with spraying, two row BBF planter, Bullock drawn solar sprayer, BD planter and other equipments.	87
3	01-04 Jan, 2023	Participation in state level <i>Krishi Mohostav</i> at Sillod Dist. Aurangabad organized by State Agricultural Department.	2,50,000
4	11-14 Jan, 2023	ICAR-AICRP on UAE, VNMKV Parbhani Centre participated in the Gorakhpur <i>Mohotsav</i> at Gorakhpur (UP) organized by <i>Mahayogi Goraknath Krishi Vigyan Kendra</i> , Gorakhpur (UP).	80000
5	15-17, Feb 2023	Participation in the Krishi Pardarshani organized by KVK, Sagroli, Nanded and demonstrated VNMKV Developed technologies	500
6	20-26, Feb 2023	Participation in <i>Rashtriya Panchmahabhoot Lokostav Kanerimath</i> , Kolhapur and Demonstrated technologies to the farmers from all over India.	3 lakh
7	23-25, Feb 2023	Participation of AICRP on UAE, VNMKV, Parbhani in <i>Sajeevani Krishi Mohotsav</i> at Parbhani	450

### Important visitors :

1	19.4.2022	Visit of Shri. Chandansinh Rathod co-ordinator Mahila Arthik Vikas Mahamandal district Nanded and officer from Parbhani Mahavim to AICRP on UAE.
2	17.5.2022	Visit of Shri. Revansidh Bhagwat Lamture, 'Udyan Pandit' At. Post. Ter Dist. Osmanabad and Shri. Guruling Babaurao Swami, Small scale Agro implement developer At. Post. Lasona Dist. Osmanabad regarding refinement of bullock drawn BBF planter & tractor drawn BBF and mechanization in other bullock drawn implements
3	1.6.2022	Visit of Shri. Govind Bajaj, Secretary, Godavari Bajaj Gramvikas Prakalp, Bothi Tq. Umari Dist. Nanded regarding FLD programme under UAE and distribution of equipment's under SCSP to need base farmer.
4	12.9.2022	Visit and interaction meet of Dr. Deshmukh, Animal Scientist with the state veterinary officers, DAHO Dr. Dr. Namdev Aghar and ACAM Dr. Nemade and demonstration of vaccination programme and preventive aspects regarding limpy skin disease at CCBP, VNMKV, Parbhani
5	16.2.2023	Visit Dr. Ashok kumar Bharimakla and team of CIRCOT, Mumbai to AICRP on UAE, VNMKV, Parbhani.

## Organization of Training Programme under AICRP on UAE



Participation in Gorakhpur Mela - Visit of Hon. Shri. Yogi Adityanathji, Hon. Chief Minister, UP



Participation in Kisan Mela - Visit of Shri. Raosaheb Danve, Hon. Union Minister





## Organization of Training Programme under AICRP on UAE



### Demonstrations/FLD organized by AICRP on UAE

Sr.No.	Date	Particulars	No. of Participants
1	17.6.22	FLD use of bullock drawn UAE developed ridger under FLD at Mandakhali Tq. Dist. Parbhani by farmer Shri. Shilevane	9
2	23.6.22	Demonstration of a Animal lifting equipment at Goushala Manwat for the sick animal for treatment	05
3	25.6.22	Demonstration of Soyabean Sowing by the bullock drawn UAE planter supplied under FLD at. Khanapur Tq. Dist. Parbhani	7
4	29.6.22	Demonstration of bullock drawn Ridger developed by AICRP on UAE and supplied to new FLD village at Bothi Tq. Umri Dist. Nanded in cotton crop	7
5	16.8.22	Demonstration of animal lifting machine and recovery of lifting cow after therapeutic treatment and physical comfort of animal lifting machine at CCBP, VNMKV, Parbhani	04
6	18.10.22	Demonstration of Lifting device at UAE project on Red Kandhari sick bullock	03
7	3.11.22	Demonstration of stubble collector at bothi tq. Umari Dist. Nanded given under FLD by UAE, VNMKV, Parbhani	05
8	3.11.22	Demonstration of manually operated implements at Turati Tq. Umari Dist. Nanded supplied under SCSP subplan by UAE	07
9	23.12.22	Demonstration of Bullock drawn solar operated sprayer for spraying of Gokrupa Amrut in the field of Shri. Shivprasad Kore at Ranisavergoan in Gram, Jowar crops.	02
10	29.12.22	Demonstration of bullock drawn solar sprayer in Field of Shri. Shivprasad Kore, Ranisavergoan in the Wheat crop.	
11	30.12.22	Demonstration of bullock drawn adjustable hoe in cotton crop of Shri. Kore at Ranisavergoan.	
12	06.01.23	Demonstration of Bullock drawn slurry applicator in sugar cane crop in the field of Shri. Manikrao Rasve, Pasaydhan Gorakshan Santha, Rametakali Dist. Parbhani.	

### Organisation of Kisan Mela by AICRP for Dryland Agriculture under NICRA and RIFS programme

Topic	No. of beneficiaries	Date	Place
Kharif season planning, Input distribution	39	June 10, 2022	Ujalamba Babhugaon Sonna
Rabi season planning, Input distribution	39	Oct, 21, 2022	Ujalamba Babhulgaon & Sonna
Kharif season planning, Input distribution	28	June 10, 2022	Adgaon
Rabi season planning, Input distribution	28	Oct, 19, 2022	Adgaon

### Organisation of Field Days by AICRP for Dryland Agriculture under NICRA and RIFS programme

Topic	No. of beneficiaries	Date	Place
<i>Kharif season planning</i>	12 12 15	May 25 May 26 May 28, 2022	Ujalamba Babhugaon Sonna
Rainwater management techniques (Opening of conservation furrow)	24 15	July 06, 2022 July 20, 2022	Ujalamba & Babhulgaon Sonna
Pest and Disease management techniques Dryspell / Stress Management Practices	12 15	Aug 03 & 11, 2022 Aug 18, 2022	Ujalamba Sonna
Training on rainwater management	24 15	Sept 01, 2022 Sept 16, 2022	Babhugaon, Ujalamba Sonna
<i>Rabi</i> crop Management techniques	10 21	Oct 03, 2022 Oct 17, 2022	Ujalamba Babhulgaon and Sonna
Pest and Disease management techniques	15	Nov 15, 2022	Babhugaon
Spraying for diseases and pests	12 16 10	Dec 16, 2022 Dec 21, 2022 Dec 29, 2022	Babhulgaon Sonna Ujalamba
Training on protective irrigation from farm pond and guidance of Dr. H.B. Santosh, Sr. Scientist, CRIDA, Hyderabad	15	Jan 04, 2023	Ujalamba & Babhulgaon
<i>Kharif season planning</i>	28	June 08, 2022	Adgaon
Sowing of demonstration plots	28	June 30, 2022	Adgaon
Pest and Disease management techniques Dryspell / Stress Management Practices	28	Aug 25, 2022	Adgaon
Training on rainwater mgt	28	Sept 01, 2022	Adgaon
<i>Rabi</i> crop Management techniques	28	Oct 03, 2022	Adgaon
Pest and Disease management techniques	28	Nov 15, 2022	Adgaon
Guidance of Dr. H.B. Santosh, Sr. Scientist, CRIDA, Hyderabad to	28	January 04, 2023	Adgaon



### University Scientists attended workshop / meetings etc.

Sr. No	Name of Scientist	Workshop/ Seminar /Training	Place	Period
1	Dr. K. S. Baig	Workshop	Coimbatore	06-08 April, 2022
2	Dr. V.N. Chinchane	Workshop	Coimbatore	06-08 April, 2022
3	Dr. A. R. Gaikwad	Workshop	Coimbatore	06-08 April, 2022
4	Dr. A. D. Pandagale	Workshop	Coimbatore	06-08 April, 2022
5	Dr. B. V. Bhede	Workshop	Coimbatore	06-08 April, 2022
6	Dr. A. T. Daunde	Workshop	Coimbatore	06-08 April, 2022
7	Dr. R.S. Jadhav	Meeting	Bangalore	23 April, 2022
8	Dr. V. R. Ghuge	Meeting	Bangalore	23 April, 2022
9	Dr. G. R. Munde	Workshop	Ayodhya	28-30 April, 2022
10	Dr. D. K. Patil	Workshop	Palampur	10-11 May, 2022
11	Dr. P. H. Ghante	Workshop	Palampur	10-11 May, 2022
12	Dr. P. L. Sontakke	Workshop	Palampur	10-11 May, 2022
13	Dr. V. K. Gite	Workshop	Palampur	10-11 May, 2022
14	Dr. K. S. Gadhe	Workshop	Palampur	10-11 May, 2022
15	Dr. V. S. Pawar	Workshop	Palampur	10-11 May, 2022
16	Dr. P. U. Ghatge	Workshop	Palampur	10-11 May, 2022
17	Dr. T. N. Khan	Workshop	Bhubaneswar	12-13 May, 2022
18	Dr. J. R. Rodge	Workshop	Bhubaneswar	12-13 May, 2022
19	Dr. S. G. Puri	Workshop	Bhubaneswar	12-13 May, 2022
20	Dr. K. S. Gadhe	Meeting	Jabalpur	16-17 May, 2022
21	Dr. R. S. Jadhav	Workshop	Indore	17-18 May, 2022
22	Dr. S. P. Mehtre	Workshop	Indore	17-18 May, 2022
23	Dr. K. K. Dakhore	Training	Hyderabad	02-04 June, 2022
24	Dr. W. N. Narkhede	Workshop	Hyderabad	02-04 June, 2022
25	Dr. R. S. Raut	Workshop	Hyderabad	02-04 June, 2022
26	Dr. M. S. Pendke	Workshop	Hyderabad	02-04 June, 2022
27	Dr. P. H. Gaurkhede	Workshop	Hyderabad	02-04 June, 2022
28	Dr. P.O. Bhutda	Conference	Bhatinda	06-08 June, 2022
29	Dr. M. B. Patil	Conference	Vaishali, Bihar	17-19 July, 2022
30	Dr. V. N. T oprope	Meeting	Hyderabad	28 <sup>th</sup> July, 2022
31	Dr. D. D. Patait	Symposium	Udaipur	08-10 August, 2022
32	Dr. K. S. Baig	Symposium	Udaipur	08-10 August, 2022
33	Dr. V. N. Chinchane	Symposium	Udaipur	08-10 August, 2022
34	Dr. A. R. Gaikwad	Symposium	Udaipur	08-10 August, 2022
35	Dr. A. D. Pandagale	Symposium	Udaipur	08-10 August, 2022

Sr. No	Name of Scientist	Workshop/ Seminar /Training	Place	Period
36	Dr. B. V. Bhede	Symposium	Udaipur	08-10 August, 2022
37	Dr. P. K. Dhoke	Symposium	Udaipur	08-10 August, 2022
38	Mrs. V.R. Tatikundalwar	Symposium	Udaipur	08-10 August, 2022
39	Dr. D. K. Patil	Workshop	Raipur	17-18 August, 2022
40	Dr. P. L. Sontakke	Workshop	Raipur	17-18 August, 2022
41	Dr. V. N. Toprope	QRT Meet	Coimbatore	24-25 August, 2022
42	Dr. A. K. Ghotmukle	QRT Meet	Coimbatore	24-25 August, 2022
43	Dr. K. D. Dahiphale	QRT Meet	Coimbatore	24-25 August, 2022
44	Dr. S. V. Waghmare	QRT Meet	Coimbatore	24-25 August, 2022
45	Dr. S. M. Umate	Workshop	Gwalior	29-31 August, 2022
46	Dr. S. B. Ghuge	Workshop	Nagpur	01-02 September, 2022
47	Dr. V. R. Ghuge	Workshop	Nagpur	01-02 September, 2022
48	Dr. C. V. Ambadkar	Workshop	Nagpur	01-02 September, 2022
49	Dr. S. A. Shinde	Workshop	Nagpur	01-02 September, 2022
50	Dr. A. K. Gore	Conference	Bengaluru	23 <sup>rd</sup> September, 2022
51	Dr. R. S. Raut	Seminar	Hyderabad	28-29 September, 2022
52	Dr. P. H. Gaurkhede	Seminar	Hyderabad	28-29 September, 2022
53	Dr. C. B. Latpate	Seminar	Bengaluru	06-07 October, 2022
54	Dr. D. N. Mohod	Seminar	Bengaluru	06-07 October, 2022
55	Dr. R. D. Baghele	Conference	New Delhi	10-12 October, 2022
56	Dr. S. P. Kausalye	Workshop	Dharwad	14-15 October, 2022
57	Dr. S. M. Umate	Training	Hyderabad	31 Oct.- 02 Nov. 2022
58	Dr. M. B. Patil	Seminar	Pune	01-02 November, 2022
59	Dr. A. C. Deole	Seminar	Pune	01-02 November, 2022
60	Dr. S. A. Adkine	Seminar	Pune	01-02 November, 2022
61	Dr. A. D. Pandagale	Training	Pantnagar	02-22 November, 2022
62	Dr. B. R. Gajbhiye	Seminar	Rahuri	15-18 November, 2022
63	Dr. P. H. Gaurkhede	Seminar	Rahuri	15-18 November, 2022
64	Dr. R. N. Khandare	Seminar	Rahuri	15-18 November, 2022
65	Dr. S. S. Dhurgude	Training	Online	09-23 November, 2022
66	Dr. M. G. Jadhav	Workshop	Bengaluru	12-14 November, 2022
67	Dr. R. N. Khandare	Workshop	Akola	16-17 December, 2022
68	Dr. A. S. Gunjkar	Conference	Hyderabad	22-24 December, 2022
69	Dr. S. A. Shinde	Conference	Hyderabad	22-24 December, 2022
70	Dr. P.H. Ghorkhede	Conference	Varanasi	8-9 January, 2023
71	Dr. M.S. Pendke	Conference	Varanasi	8-9 January, 2023

Sr. No	Name of Scientist	Workshop/ Seminar /Training	Place	Period
72	Dr. A.K. Ghotmukale	Conference	Hyderabad	17-21 January, 2023
73	Dr. S.P. Mehetre	Conference	Hyderabad	17-21 January, 2023
74	Dr. R.S. Jadhav	Conference	Hyderabad	17-21 January, 2023
75	Dr. A.H. Rathod	Conference	Hyderabad	17-21 January, 2023
76	Dr. K.D. Dahiphale	Conference	Hyderabad	17-21 January, 2023
77	Dr. M.G. Patil	Conference	Hyderabad	17-21 January, 2023
78	Dr. M.K. Ghodke	Conference	Hyderabad	17-21 January, 2023
79	Dr. A.M. Misal	Conference	Hyderabad	17 21 January, 2023
80	Dr. S.V. Waghmare	Conference	Hyderabad	17-21 January, 2023
81	Dr. K.K. Dakhore	Workshop	Pune	30 January, 2023
82	Dr. S.G. Patil	Training	Nagpur	30 Jan- 3 Feb, 2023
83	Dr. C.V. Ambadkar	Training	Palampur	05-14 February, 2023
84	Dr. V.K. Gitte	Conference	New Delhi	10-12 February, 2023
85	Dr. P.A. Pagar	Conference	New Delhi	10-12 February, 2023
86	Dr. D.K. Patil	Conference	New Delhi	10-12 February, 2023
87	Dr. P.L. Sontakke	Conference	New Delhi	10-12 February, 2023
88	Dr. S.B. Sarode	Conference	Kanpur	10-12 February, 2023
89	Dr. K.S. Kadam	Conference	Kanpur	10-12 February, 2023
90	Dr. D.S. Mutkule	Conference	Kanpur	10-12 February, 2023
91	Dr. W.N. Narkhede	Conference	Kanpur	10-12 February, 2023
92	Dr. V. S. Khandare	Symposium	Jalgaon	11-14 February, 2023
93	Dr. K.K. Dakhore	Conference	Coimbtore	15-17 February, 2023
94	Dr. A.S. Jadhav	Conference	Coimbtore	15-17 February, 2023
95	Dr. M.S. Pendke	Conference	Hyderabad	21-23 February, 2023
96	Dr. H.H. Bhadarge	Conference	Jodhpur	24-26 February, 2023
97	Dr. S.B. Pawar	Conference	Jodhpur	24-26 February, 2023
98	Dr. C.B. Patil	Conference	Jodhpur	24-26 February, 2023
99	Dr. S.S. Kamble	Conference	Jodhpur	24-26 February, 2023
100	Dr. A.B. Bagade	Conference	Jodhpur	24-26 February, 2023
101	Dr. A.K. Zote	Conference	Jodhpur	24-26 February, 2023
102	Dr. D.G. Hingole	Conference	Jodhpur	24-26 March, 2023
103	Dr. N.R. Patange	Training	Jodhpur	24-26 March, 2023
104	Dr. S.R. Barkule	Training	Jodhpur	24-26 March, 2023



## International Millet Year - Programmes Organized





## International Millet Year - Programmes Organized





## International Millet Year - Programmes Organized



## अँगो स्पेशल

मंगळवार, १४ मार्च २०२३

सुक्राळ अँगोवन

### संतोष मुंडे

यंदाचे वर्ष आंतरराष्ट्रीय 'मिलेट्स', अर्थात भरडधान्ये वर्ष म्हणून साजरे करण्यात येत आहे. त्या पार्श्वभूमीवर संभाजीनगर येथील अखिल भारतीय समन्वयित बाजरी संशोधन प्रकल्पाद्वारे विकसित बाजरीच्या लोह व जस्ताने युक्त दोन वाणांचा देशभरात प्रसार होत आहे. यंदा उन्हाळी हंगामात ३० ते ४० शेतकऱ्यांकडे वाणांच्या चाचण्या सुरू आहेत. प्रक्रियेद्वारेही बाजरीचे मूल्यवर्धन होत असल्याने त्याची बाजारपेठ सशक्त होण्यास मदत मिळत आहे.



ईश्वर सपकाळ यांच्याकडील यंदा उन्हाळ्यातील एचबी-१२०० बाजरी वाणाची लागवड.



सन २०२३ हे आंतरराष्ट्रीय पौष्टिक तृणधान्य-भरडधान्य वर्ष (मिलेट्स) म्हणून साजरे केले जाते आहे. याच 'मिलेट्स' मधील महत्वाचे पीक म्हणजे बाजरी. अर्बुण प्रबल भागात येणाऱ्या व शेतकऱ्यांचे महत्वाचे पीक असलेल्या बाजरीचा क्षेत्र विस्तार व मूल्यवर्धनासाठी विविध स्तरावरून प्रयत्न सुरू आहेत. रायगाव डीरेगाव, नगर, धुळे, पुणे, सोलापूर, बीड आणि नाशिक जिल्ह्यांत या पिकाची सर्वाधिक लागवड पाहण्यास मिळते. अलीकडील काही वर्षांत नगदी पिकांकडे शेतकऱ्यांचा कल वाढला. त्यामुळे उच्च पोषणतत्वे असूनही भरडधान्यांखालील क्षेत्र घटले. मात्र नवे संशोधन, तंत्र व वाण व प्राहकांकडून मागणी याद्वारे बाजरीसारख्या पिकात पुन्हा चांगल्या प्रकारे चालना मिळू लागली आहे.

### जैव संयुक्त वाणांवर संशोधन

एव नार्क मराठवाडा कृषी विद्यापीठ अंतर्गत संभाजीनगर (पूर्वीचे नाव : ) येथे अखिल भारतीय समन्वयित बाजरी प्रकल्प कार्यान्वयित आहे. येथील शरमज्जानी जोधपूर येथील प्रकल्प केंद्र आणि इन्सिट (हंदराबाद) यांच्यासोबतच्या संयुक्त संशोधनातून बाजरीचे दोन जैवसंयुक्त (बायो फोर्टिफाइड) संकरित वाण विकसित केले आहेत. राष्ट्रीय स्तरावर ते शिफारसित झाले आहेत.

## पौष्टिक गुणधर्मांनी युक्त बाजरी वाणांचा होतोय प्रसार



यंदाच्या खरिपातील वैजापूर येथील बाजरी संशोधन केंद्र प्रक्षेत्रावरील बीजोत्पादन.

### ...असे आहेत हे वाण

- एचबी-१२०० (२०१८ मध्ये प्रसारित)
- लोहचे प्रमाण ८७ मिलिग्रॅम प्रति किलोग्रॅम आहे. (नेहमीच्या वाणात ते ४० ते ४५ मिलिग्रॅम असते)
- जस्ताचे प्रमाण ३७ मिलिग्रॅम प्रति किलोग्रॅम.
- उत्पादनक्षमता - ३० ते ३२ क्विंटल प्रति हेक्टर
- एचबी-१२६९ (२०१९ मध्ये प्रसारित)
- लोह - ९१ मिलिग्रॅम प्रति किलोग्रॅम.
- जस्त - ४३ मिलिग्रॅम प्रति किलोग्रॅम.
- उत्पादनक्षमता - ३२ ते ३४ क्विं. प्रति हेक्टर

### सामाईक गुणधर्म

- पोसावी व करपा रोगास प्रतिकारक.
- घट्ट कणीस व टपरे दाणे.
- रंग हिरवट. फुटण्याचे प्रमाण अधिक.
- प्रति १००० दाण्यांचे वजन १५ ते १८ ग्रॅम.

### उन्हाळी हंगामासाठी चाचण्या

दोन्ही जैवसंयुक्त वाणांची खरीप शिफारस झाली आहे. उन्हाळी हंगामा शिफारस नसली, तरी सुमारे ३० ते ४० शेत वाणांच्या चाचण्या उन्हाळी हंगामासाठी सु दोन्ही वाणांचे पीक प्रात्यक्षिक खरिपात शेतकऱ्यांकडे घेण्यात येत आहे. यंदाच्या खरिपात या वाणांचा उपयोग शेतकऱ्यांना करता येईल.

घान १४ खर

डॉ. सुर्यकांत पवार ९४२२१७८९८२

निवृत्ती कागदे ९०९६४७४१९९

ईश्वर सपकाळ ८२७५३२१३९



## Memorandum of Understanding (MoU)

1. Vasantao Naik Marathwda Krishi Vidyapeeth, Parbhani and M/s. Aquatic Remedies Limited, Mumbai signed Memorandum of Understanding on October 07, 2022. This function was preceded over by Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani. Dr. Dattaprasad Waskar, Director of Research and Mr. Bharat Mehta, Director, Aquatic Remedies Limited signed Memorandum of Understanding. This MoU signed for the laboratory and field evaluation studies of electronic instrument developed for enhancing the seed germination of soybean at Seed Technology Research Unit. For this function, Dr. Khizer Baig, Associate Director (Seeds), Dr. R.R. Dhutmal, Seed Testing Officer, Dr. Pravin Kapse, PRO, Shri. Pranesh Chandak were also present.
2. Vasantao Naik Marathwda Krishi Vidyapeeth, Parbhani and Indian Institute of Sugarcane Research, Lucknow signed Memorandum of Understanding for promotion of student's training and quality postgraduate research on November 23, 2022 at IISR, Lucknow. Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani and Dr. A.D. Pathak, Director, IISR, Lucknow signed Memorandum of Understanding. For this function, Dr. A.K. Singh, Dr. Gangwar were also present. Dr. Dattaprasad Waskar, Director of Research and Dr. Uday Khodke also signed MoU from University side. This MoU signed to promote long term sugarcane research which will be beneficial for research workers and farmers of the Marathwada as well as Maharashtra.
3. Kansas State University, USA and Vasantao Naik Marathwda Krishi Vidyapeeth, Parbhani signed Memorandum of Understanding on February 10, 2023. Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani and Dr. David Rosowsky, Vice President for research, Kansas State University signed Memorandum of Understanding. This MoU will help in exchange of research knowledge for PG and PhD research work of this University. Alongwith this, development of skilled manpower for future digital agriculture is also a motto of this MoU. For this function, Dr. Vara Prasad, Dr. Ernest Minton, Dr. John Middendorf, Dr. Naza Lilja, Dr. Grant Chapman, Dr. Raj Khosla from Kansas State University were also present.
4. Central Institute for Research on Cotton Technology (CIRCOT), Mumbai and Vasantao Naik Marathwda Krishi Vidyapeeth, Parbhani signed Memorandum of Understanding on February 16, 2023. This function was preceded over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani. Dr. Dattaprasad Waskar, Director of Research, Dr. Ashok Kumar Bharimalla, Scientist, CIRCOT, Dr. Manoj Kumar Mahawar, Scientist, CIRCOT, Dr. Jyoti Dhakane Lad Scientist, CIRCOT and Dr. Khizer Baig, Cotton Specialist signed Memorandum of Understanding. For this function, Dr. Dheerajkumar Kadam, Registrar, Mrs. Deeparani Devatraj, Comptroller, Dr. Uday Khodke, Associate Dean Principal, Dr. W. N. Narkhede, Head, Dr. Smita Solanki, Principal Investigator, Dr. Vijay Chinchane and Dr. Pravin Kapse were also present. The purpose of this MoU is to work together for mechanization in cotton cultivation, value addition, post harvest technology, use of artificial intelligence, development of cultivation and plant protection technology, nano technology, biotechnology etc. for conducting long term research work. The faculty of both institutes will jointly organize various training programmes for scientists, students and farmers for extension and exchange of technical knowhow.
5. National Bureau of Soil Survey and Land Use Planning (NBSS&LUP), Nagpur and Vasantao Naik Marathwda Krishi Vidyapeeth, Parbhani signed Memorandum of Understanding on February 16, 2023. Dr.

- Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani, Dr. P. B. Bhaskar, Director, NBSS&LUP, Dr. Dattaprasad Waskar, Director of Research, Dr. Pravin Vaidya, Head, Dept. of Soil Science and Agril. Chemistry signed Memorandum of Understanding. For this function, Hon. Members of Executive Council Shri. Satish Chavhan, MLC, Shri. Rameshrao Karad, MLC, Shri Abhimanyu Pawar, MLA and Dr. Dharmaraj Gokhale, Director Instruction and Dean were also present. This MoU will help in development of digital soil maps for Marathwada region using Remote Sensing and GIS techniques. On the basis of digital soil maps, Decision Support System (DSS) will be developed which will help for decision on crop cultivation as per land capability classes, soil fertility and nutrient management. The exchange of faculty from both the institutes and the facilities will help in strengthening of research of PG and Ph.D. students.
6. Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani and M/s. Durga Agro Works, Daryapur, Amrawati signed Memorandum of Understanding on March 16, 2023 for manufacturing and marketing of fourteen implements developed by AICRP on Utilization of Animal Energy, VNMKV, Parbhani. This function was preceded over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani. For this function, Dr. Dattaprasad Waskar, Director of Research, Dr. Dheerajkumar Kadam, Registrar, Mrs. Deeparani Devatraj, Comptroller, Dr. Uday Khodke, Associate Dean Principal, Dr. Smita Solanki, Principal Investigator, Dr. Rahul Ramteke, Head and Shri. Suraj Chandel from Durga Agro Works were also present.
  7. Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani and M/s. Sushil Model and Scientific Works, Ambala Cantt signed Memorandum of Understanding on 02nd March, 2023 for manufacturing of Roaster developed by Dept. of Agricultural Process Engineering, CAET, VNMKV, Parbhani and its marketing by M/s. Babaji Traders, parbhani. This function was preceded over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani. Dr. Dattaprasad Waskar, Director of Research, Dr. Uday Khodke, Associate Dean and Principal, Dr. Smita Khodke, Head signed Memorandum of Understanding. For this function, Dr. Dharmaraj Gokhale, Director Instruction and Dean, Dr. Devrao Deosarkar, Director of Extension Education, Dr. Syed Ismail, Associate Dean and Principal, Dr. Digambar Perke, Dr. Smita Solanki, Shri Kiran Kolhe, Dr. Pramodini More, Dr. Shyam Garud were also present.
  8. Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani and Paani Foundation, New Delhi signed Memorandum of Understanding on 29th March, 2023. This function was preceded over by Dr. Indra Mani, Hon. Vice Chancellor, VNMKV, Parbhani. Dr. Dattaprasad Waskar, Director of Research and Shri. Namdev Nanaware, Programme Coordinator, Paani Foundation signed Memorandum of Understanding. Dr. Pandagale and Dr. M.S. Pendke were present for the ceremony. University scientists participate in Digital Farmer School organized Panni Foundation and guide the farmers groups on Crop production technology, irrigation water management, Nutrient management and pest-disease management for enhancing the crop production and income. Farmers groups from 39 talukas of Maharashtra will be benefited through this programme.
  9. Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani and Rajiv Gandhi Science and Technology commission signed Memorandum of Understanding for sanctioning of Innovative Research Projects. RGST approved Rs. 50.00 lakh. Through this, new research projects with innovative ideas will be implemented in the University.
  10. Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani and CNH Industries (India) Private Limited, Noida signed Memorandum of Understanding for Agricultural mechanization. CNH Industries (India) Private Limited, Noida is a leading organization / industry in Agricultural mechanization. Through this MoU,

Farmers and rural youth will be trained in mechanization and for this; Rs. 50.00 lakh funds were approved. Under this project, College of Agril. Engg. & Tech. will be the main centre and KVK, Khamgaon, Tuljapur, Aurangabad and Jalna will be the sub centres. Complete mechanization will be implemented to increase the productivity of major crops in the region. Under this programme, training will be given to 1500 farmers, technicians and rural youth upto December 2024 so that, in future all trainees will be motivated to become entrepreneurs.

11. Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani and Indian Space Research Organisation (ISRO) Ahmednagar signed Memorandum of Understanding for weather prediction and accordingly to provide agro-advisory to farming community on taluka basis. In future, Space technology will be utilized in agriculture sector and this kind of MoU will be useful for establishment of new research centre in the University and the beneficiaries will be students, researchers and farmers.
12. Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani and ICAR-Central Institute of Post Harvest Technology (ICAR-CIPHET), Ludhiana signed Memorandum of Understanding for conducting research work of PG and Ph.D students of this University. Through this MoU, students can utilize laboratory facilities for analysis. Similarly, students can get training on modern technology through exchange of faculty. The main aim of signing this MoU is to find suitable technology for minimizing post harvest losses.
13. Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani and Io Tech World Aviation Private Limited signed Memorandum of Understanding for establishment of Authorised drone pilot training centre in the University. Drone technology is being used in agriculture sector for nutrient management, water management, pest and disease management. Through this MoU, drone pilot will be expert for spraying of insecticide as per crop requirement. The training and research will be carried out for designing nozzle, artificial intelligence and machine learning.
14. Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani and Indian Institute of Technology (IIT) Kharagpur signed Memorandum of Understanding for technology exchange and training for conducting research work of PG and Ph.D. students. Dr. V.K. Tiwari, Director, Dr. T.K. Bhattacharya and Dr. Rajendra Machewaram from IIT, Kharagpur were present during the MoU signing ceremony. Many problems of agricultural sector will be solved through development of technologies. and will generation





MoU with Aquatic Remedies, Mumbai



MoU with IIT, Kharagpur



MoU with ICAR-IISR, Lucknow

## MoU 2022-23



MoU with ICAR-CIRCOT, Mumbai



MoU with ICAR-NBSS & LUP, Nagpur



MoU with Pani Foundation



## MoU 2022-23



MoU with KANSAS State University, USA



MoU with M/S Durga Agro works, Daryapur



MoU with Rajiv Gandhi Science and Technology Mission, Mumbai



### Awards received by Institute / Scientists

Sr. No.	Name of the Research centre/ scientist	Name of the award	Year	From whom received
1	AICRP for Dryland Agriculture, VNMKV, Parbhani	Most Responsive Centre Award during	2022	ICAR-CRIDA Hyderabad
2	Cotton Research Centre, Nanded	Public-Private Partnership award	2022	Cotton Research and Development Association, MPUAT, Udaipur
3	Organic Farming Research and Training Centre	<i>Jaiwik</i> India Award 2022	2022	Organic Farming International Capacity Building Centre, Bengaluru and Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi
4	Dr. Shiwaji Mehetre Soybean Breeder	Vasantrao Naik Award	2022	Vasantrao Naik Krishi Prathisthan, Pusad
5	Dr. K.S.Baig CRS, Nanded	Professional Excellence Award	2022	Cotton Research and Development Association, MPUAT, Udaipur
6	P.H. Gourkhede Soil Scientist, Dryland Research Centre	Best Poster Presentation Award during National seminar on “Harnessing the potential of <i>Panchabhutas (Tatavas)</i> for sustainable climate resilient rainfed agriculture”	2022	ICAR-CRIDA Hyderabad
7	M.S. Pendke Agril.Engineer, Dryland Research Centre	Best Poster Presentation Award during International conference on “Reimagining Rainfed Agro-ecosystem –	2022	ICAR-CRIDA Hyderabad
8	A.K. Gore Sr.Scientist, AICRP for Dryland	Best Poster Presentation Award during International conference on “Reimagining Rainfed Agro-ecosystem –	2022	ICAR-CRIDA Hyderabad
9	Dr. Hanuman Garud SMS, KVK, Khamgaon	Best Ph.D. Thesis award 2017-18	2022	Indian Society of Dryland Agriculture, ICAR-CRIDA, Hyderabad
10	Dr. S.N. Solanki Research Engineer, AICRP on UAE	Felicited by World Women Icon 2022’ certificate ‘Best Researcher in Maharashtra State’	2022	Global Triumph Foundation

Sr. No.	Name of the Research centre/ scientist	Name of the award	Year	From whom received
11	Dr. S.N. Solanki Bhushan Award	Felicitated by Bharat Bhushan Award 2022 in Research & Extension	2022	NAHF. Bharat
11	Dr. S.N. Solanki Bhushan Award	Felicitated by Bharat Bhushan Award 2022 in Research & Extension in farm mechanization	2022	NAHF. Bharat
12	Dr. Khizer Baig Cotton Specialist, Cotton Research Station, Nanded	Best Agriculture Scientist Award-2022	2022	Joint AGRESCO-2022 held at Dr. BSKKV, Dapoli during December 14-16, 2022
	Dr. S. N. Solanki, Research Engineer, AICRP on UAE	Nelson Mandela Global Brilliance Award-2022	2022	ministry of social science and empowerment, GOI-2022
13	Dr. K.S.Baig CRS, Nanded	Norman Bourlog Award	2023	
14	Dr.Sandeep Shinde	Best Ph.D. Thesis award	2023	
15	Dr. S.N. Solanki, Research Engineer, AICRP on UAE	Best Scientist Award'	2023	KVK, Badnapur.03-01-2023
16	Dr.S.N.Solanki, Research Engineer, AICRP on UAE	Rastriya Pratitha Purskar	2023	worthy wellness Foundation24.2.2023
17	Dr. Smita Khodke Dr. Smita Solanki Dr. K.S.Baig Dr. A. D. Pandagale Dr. B.V.Bhede Dr. P.K. Dhoke Dr. L.N.Jawale Dr.Mohd. Ilyas Dr.V.M.Gholwe Dr.K.R.Kamble Dr.K.D.Navgire Mrs. P.O.Bhutda Dr.P.A.Pagar	Appreciation certificates	2023	Pani Foundation
18	Dr. Ganesh Gaikwad AICRP on Water Management	Best Oral Presentation Award	2023	International Conference on emerging trends in plant and environmental science University of Rajasthan, Jaipur February 2-4, 2023

## Awards received by Scientists / Research Centres



Dr. S.P. Mhetre - Vasant Rao Naik Award



AICRP Dryland - Most Responsive Centre Award



Dr. A.K. Gore - Jaivik India Award



Dr. A.K. Gore - Sahyadri Award



Dr. K.S. Baig - Best Research Scientist Award



Dr. K.S. Baig -



## Awards received by Scientists / Research Centres



Dr. S.N. Solanki - Pani Foundation Award



Dr. S.N. Solanki - Best Women Scientist Award



Dr. M.S. Pendke - Best Poster Presentation Award



Dr. Dinesh Singh Chauhan Receiving Award



Best Dryland Farmer Award - ICAR-CRIDA, Hyderabad



Best NICRA Farmer Award - Agrometeorology

### Seed Production Programme and Receipts 2022-23

Sr.No.	Crop	Class of Seed	Quantity In Qtls	Total Quantity (Qtls)
<b>I</b>	<b>SEED PRODUCTION</b>			
<b>A</b>	<b><i>Kharif</i></b>			
1	Soybean	Breeder	4280.94	<b>4867.29</b>
		Truthful	586.35	
2	Tur	Breeder	513.17	<b>529.62</b>
		Truthful	16.45	
3	Mung	Breeder	95.82	<b>100.22</b>
		Truthful	04.40	
4	Udid	Breeder	05.81	<b>05.81</b>
5	Jowar	Breeder	51.00	<b>51.00</b>
6	Bajra	Breeder	07.38	<b>07.38</b>
7	Paddy	Breeder	04.31	<b>17.91</b>
		Truthful	13.60	
8	Bhedni	Breeder	<b>02.89</b>	<b>02.89</b>
9	Chilli	Breeder	<b>01.39</b>	<b>01.39</b>
<b>Total Kharif</b>				<b>5532.51</b>
<b>B</b>	<b><i>Rabi</i></b>			
1	Rabi	Breeder	46.18	<b>50.44</b>
	Sorghum	Truthful	04.26	
2	Chickpea	Breeder	261.56	<b>269.27</b>
		Truthful	07.71	
3	Safflower	Breeder	109.80	<b>109.80</b>
4	Wheat	Breeder	12.00	<b>12.00</b>
5	Linseed	Truthful	00.51	<b>00.51</b>
<b>Total Rabi</b>				<b>442.02</b>
<b>Total (Kharif + Rabi)</b>				<b>5974.71</b>
<b>II</b>	<b>RECEIPT</b>			
	<b>A. Kharif</b>		<b>Rs. 75,00,000/-</b>	
	<b>B. Rabi</b>		<b>Rs.1,42,92,793/-</b>	
	<b>Total</b>		<b>Rs . 2,17,92,793/-</b>	

### Planting material developed and sold during 2022-2023- Central Nursery

Sr. No.	Name of the Fruit crop	Number of Grafts/Layer/ Seedlings, sold	Price (Rs.)	Amount (Rs.)
1	Mango (Kesar & Other)	5388	80/-	428640
2	Guava (Sardar & Lalit)	6161	60/-	368460
3	Custard Apple (Balanagar)	4517	50/-	225800
4	Sapota (Kalipati)	2169	90/-	193590
5	Jamun (Konkan Bahadoli)	1082	70/-	74900
6	Tamarind ( No. 263, Ajinta & Pratishtan)	971	70/-	67970
7	Sweet Orange (Nucellar & Katol Gold)	532	80/-	42560
8	Pomegranate (Bhagwa)	436	30/-	12990
9	Aonla (NA-7)	328	50/-	16350
10	Kagzi Lime Seedling	3752	35/-	130760
11	Karwand Seedlings	4607	15/-	69045
12	Coconut Seedlings	1993	100/-	199300
13	Mandarin (Nagpur Santra)	33	80/-	2640
14	Fig (Dinkar)	79	40/-	3080
15	Bamboo Seedlings	3390	20/-	67820
16	Ornamental Plants	2409	25/-	69200
17	Tamarind, Jamun, Kadipatta	1101	25/-	27525
18	Other (Bakul, Ashoka, Karanj, Gulmohar, Arjun, Badam Seedlings)	3989	25/-	100725
19	Rangpur Lime Seedlings	661	30/-	19830
20	Drumstick Seedlings	39	10/-	380
21	Auction (Sweet Orange fruits)	-	-	4200
22	Auction (Rangpur fruits)	-	-	28545
23	Auction (Dried trees)	-	-	9500
24	Mango Fruits Sell	-	-	4500
25	Credit Bill Amount Recovered			178085
	<b>Total revenue ( Rs.)</b>			<b>23,46,395/-</b>
	Credit Bill Amount to be Recovered			<b>2,60,455/-</b>
	<b>Total Nursery Sell (Rs.)</b>			<b>26,06,850/-</b>

### Tissue Culture Project, Parbhani

Crop & cultivar	No. plantlets sold	Rate/Plantlet	Total Receipt (Rs)
Banana (Grand Naine)	47225	14/-	6,61,150.00

### Custard apple Research Station, Ambajogai

Crop	No. plantlets sold	Rate/Plantlet	Total Receipt (Rs)
Custard apple	4235	40/-	1,69,400.00



### **Fruit Research Station, Aurangabad**

<b>Crop</b>	<b>No. plantlets sold</b>	<b>Rate/Plantlet</b>	<b>Total Receipt (Rs)</b>
Mango	11208	80	896640
Tamerind	4463	70	312410
Custard apple	3711	50	185550
Sweet orange	1655	80	132400
Lemon	1498	40	59920
Aonla	916	25	22900
Wood apple	335	25	8375
Ram phal	392	25	9800
Guava	99	60	5940
Others	370	25	9250
<b>Total receipt, Rs.</b>			<b>1643185</b>

## Product Testing Details 2022-23

Year	Name of Crop	Name of Research Station	No. of Hybrids/ Varieties for testing
2022-23	Bt Cotton	Cotton Research Station, Nanded	02
	Bt Cotton	Cotton Research Scheme, Parbhani	07
	Vegetable	Horticulture Research Station (Vegetable), Parbhani	479
	Pigeon pea	Agriculture Research Station, Badnapur	06
	Green Gram	Agriculture Research Station, Badnapur	01
	Black Gram	Agriculture Research Station, Badnapur	03
	Chick pea	Agriculture Research Station, Badnapur	10
	Soybean	Soybean Research Scheme, Parbhani	37
	Sorghum	Sorghum Research Station, Parbhani	01
	Forage Sorghum	Sorghum Research Station, Parbhani	01
	Sorghum	Agriculture Research Station, Somnathpur	01
	Forage Sorghum	Agriculture Research Station, Somnathpur	01
	Wheat	Wheat and Maize Research Unit, Parbhani	18
	Maize	National Agriculture Research Project, Aurangabad	68
	Sweet corn	National Agriculture Research Project, Aurangabad	08
	Pearl millet	National Agriculture Research Project, Aurangabad	18
	Sunflower	Oil seeds Research Station, Latur	04
		<b>Total</b>	<b>665</b>
		<b>Testing fees received (Rs.)</b>	<b>4,71,17,500/-</b>
Year	Name of Crop	Name of Research Station	No. of Products for testing
2022-23	Bt Cotton	Cotton Research Station, Nanded	01
	Bt Cotton	Cotton Research Scheme, Parbhani	01
	Soybean	Cotton Research Scheme, Parbhani	01
	Soybean	Soybean Research Scheme, Parbhani	14
	Mung	Agriculture Research Station, Badnapur	01
	Soybean	Associate Director (Seed), Parbhani	01
	Soybean	Department of SSAC, Parbhani	02
	Maize	Dept. Agril. Entomology, Parbhani	01
	Chilli	Horticulture Research Station (Vegetable), Parbhani	02
	Cucumber	Horticulture Research Station (Vegetable), Parbhani	01
	Groundnut	Organic Farming Research Station, Parbhani	04
	Tomato	Organic Farming Research Station, Parbhani	04
	Chilli	Organic Farming Research Station, Parbhani	03
	Cotton	Organic Farming Research Station, Parbhani	03
	Rice	Organic Farming Research Station, Parbhani	03
	Sunflower	Organic Farming Research Station, Parbhani	01
	Maize	Organic Farming Research Station, Parbhani	02
	Chilli	Safflower Research Scheme, Parbhani	01
	Maize	Wheat and Maize Research Unit, Parbhani	11
	Sweet Orange	Sweet Orange Research Station, Badnapur	01
	Groundnut	Oil seeds Research Station, Latur	02
		<b>Total</b>	<b>60</b>
		<b>Testing fees received (Rs.)</b>	<b>1,13,83,850/-</b>
		<b>Total Testing Fees Receipt (Rs.)</b>	<b>5,85,01,350/-</b>

### New Project Approved / Sanctioned

Sl. No.	Name of the project and institute	Sponsored by	Financial outlay, (Rs. lakh)
01.	Establishment of Bt referral laboratory at Cotton Research Station, Nanded	Govt. of Maharashtra	255.00
02	Micro climate studies in crops and genotypes at AICRP on Agro-meteorology	Govt. of Maharashtra	170.00
03	Advanced Bio-technology laboratory at Vilasrao Deshmukh College of Agril. Biotechnology, Latur	Govt. of Maharashtra	585.00
04	Biopesticide laboratory at NARP, Aurangabad	Govt. of Maharashtra	356.00
05	Bio fertilizer laboratory at NARP, Aurangabad	Govt. of Maharashtra	160.00
06	Automation in soil testing Laboratory at Dept of Soil Science	Govt. of Maharashtra	270.00
07	Phytopathological Laboratory at Dept. of Plant Pathology	Govt. of Maharashtra	312.00
08	Custard Apple processing laboratory at Custard Apple research Centre, Ambajogai	Govt. of Maharashtra	392.00



## Seed Hub, ORS, Latur



**Inauguration of Seed Hub, Oilseed Research Station, Latur**



**Visit of Shri. Abdulji Sattar, Hon.Minister for Agriculture to the University**

## Land Development and Farm Pond Construction Work





# EXTENSION EDUCATION

## Introduction

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

Regional Agricultural Extension Education Centres (RAEECs) are functioning at Parbhani, Aurangabad, Ambajogaia 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 with whole Marathwada region as jurisdiction. ATIC is a single window delivery system for advisory and information and advisory services. 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 the administrative control of the 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. Front Line Demonstrations and On Farm Trials, Skill Development Trainings and Vocational trainings were also organized by the KVKs.

## Significant Achievements

### 1. Field Visit/Diagnostic Team Visit

University Scientists organized 1223 field visits/ diagnostic field visits to the farmers' fields, assess field problems and suggested solution to the field problems of 23234 farmers on the spot during 2022-23.

### 2. Farmers' Rally

On the eve of 49th University Foundation Day, Kharif Farmers' Rally, on the eve of Marathwada Mukti Sangran Din Rabi Farmers' Rally and on the eve of Kranti Jyoti Savitribai Phule Jayanti Women Farmers' Rally were organized on 18th May 2022, 17th September 2022 and 3rd January 2023 respectively. 7600 farmers, women, entrepreneurs and extension personnel participated in these rallies.

Regional Extension Centres, Krishi Vigyan Kendras, Colleges and Research Stations in all organized /participated in 115 farmers rallies organized by State Department of Agriculture and developmental departments and NGOs during 2022-23. 55457 farmers, women, entrepreneurs and extension personnel participated in these rallies during reporting year.



### **3. Training programmes**

Directorate of Extension Education through its centers. Colleges and research stations organized 537 training programmes for different clientele groups. 19069 farmers, farmwomen, youths, entrepreneurs, extension functionaries, NGOs, and Self-help Groups members were trained in these training programmes during 2022-23.

### **4. Exhibitions**

The Directorate of Extension Education organized exhibitions on the eve of farmers rallies, seminars, workshops and other events, etc. and showcase the technologies, products and Bi-products. Colleges, Research Stations, Extension Centres & KVKs participated in the 27 exhibitions organized at State and National level benefiting 693943 farmers and other stakeholders during 2022-23. A state level Agricultural Exhibition was organized at Sillod Dist. Aurangabad during 1-5 January 2023. Around 3 lakh farmers visited the VNMKV stall in this exhibition.

### **5. 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. 96 MDWs were organized and 7245 officers and progressive farmers participated in these workshops during 2022-23.

### **6. Krishi Sanjivani Saptah**

VNMKV celebrated Krishi Din on occasion of birth anniversary of Vasant Rao Naik on 1st July, 2022. Government of Maharashtra decided to celebrate 24th June to 1st July 2022 as Krishi Sanjivani Saptah on occasion of birth anniversary of Vasant Rao Naik. University 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 215 extension programmes benefiting 18900 farmers during Krishi Sanjivani Saptah.

### **7 Group Discussion**

315 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. 6803 farmers were participated in these group discussions during 2022-23.

### **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 218 villages diagnose field problems and suggested remedial measures to 8276 farmers on the spot during 2022-23.

## **9. Plant protection campaign**

Plant protection campaign for management Pink Bollworm in Cotton and Fall Army Worm in Maize was implemented during Kharif 2022. University scientists organized 200 field visits and guided farmers about Pink bollworm management and Fall Army Worm. 7827 farmers got benefit of this campaign.

## **10. My One Day for My Farmers -Technology transfer on farmers field**

As per the directives of the State Department of Agriculture, Govt. of Maharashtra, “My One Day for My Farmers” campaign was organized by VNMKV, Parbhani during 1st September to 30th November 2022. University constituted 27 teams comprising 115 scientists. Special drive of visits of university scientists were organized on 1st September, 3rd October, and 8th November 2022. University also planned to continue the campaign and organized visits on 1st December 2022. University scientists visited to the farmers’ fields, spent whole day with the farmers, asked about their problems and guided farmer about innovative agricultural technologies. Scientists also diagnosed field problems and suggested remedial measures. In all 450 scientists visited 240 villages benefiting over 6000 farmers in the entire Marathwada region. University Colleges, Research Stations, Extension Centres and Krishi Vigyan Kendras took active participation in the campaign.

## **11. Field day**

To demonstrate the worthiness of the innovations on agricultural technologies 43 Field Days were organized at the farms of the progressive farmers, trial fields, and demonstration sites. 7095 farmers participated in these field days during 2022-23.

## **12. Crop Demonstrations**

The University has demonstrated maximum genetic production potential of major crops in the field conditions through crop demonstrations. These activities created awareness among the farmers about new varieties and trained them with modern technological packages of practices recommended by the University. In all 947 crop demonstrations were organized and 2707 farmers visited to these demonstrations during 2022-23.

## **13. All India Radio & Doordarshan Programme**

Interviews and lectures of university scientists were broadcasted through 270 programmes on All India Radio and Regional Radio Stations & 72 programmes were telecasted on Doordarshan and private TV channels during 2022-23.

## **14. Telephone Help Line**

This Directorate has been provided technical information to the farmers through Telephone Help Lines. More than 6000 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 2022-23.

## **15. Publications**

This Directorate has published Krishi Dainandani (5000 copies), University Calendar (2000 copies), Sheti Bhati Magazine (12 issues), Booklets (07) and folders (14) containing information on crop technologies developed by the university. These publications were distributed amongst the farmers, students and extension workers.

## **16. 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.

## **17. Farmers-Scientists Forum**

Extension centres formed crop/agri. allied enterprise specific groups of farmers viz. turmeric growers, sugar cane growers, cotton growers, soybean growers, sweet orange growers, pomegranate growers, dairy owners, poultry owners and food processors etc. University scientist and these groups meet regularly. Problems of the groups were discussed and technical guidance was provided in these meetings.

## **18. Use of Mass Media and Information Technology**

The use of information technology and media is one of the important pillars of technology dissemination. 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 YouTube. Online trainings and webinars were also 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 portals and through audio conferencing.

## **19. District Agro Met Unit (DAMU)**

District Agro Met Unit (DAMU) is in operation at KVK, Aurangabad and KVK, Tuljapur (Dist.Osmanabad) premises since August 2019. Block level weather forecast was provided to farmers groups through portals and WhatsApp groups on every Tuesday and Friday. These messages were sent to more than four lakh farmers regularly. Feedback collected from the farmers on usefulness and further requirements from the service are communicated to IMD for Systematic analysis and further improvement in the service.

## **20. World Soil Health Day**

KVKs and extension centres celebrated World Soil Health Day on 5th December 2022. Soil health awareness programmes were organized on this occasion.

## **21. Mobile Apps**

Eleven Mobile Apps on different crop technologies and agricultural information have been developed till to date. Presently, Mobile App on Cotton Production Technology, Turmeric Production Technology, Sorghum Production Technology, Sweet Orange Production Technology, Plant Protection in major field crops, Dry Land Technology, Nutrient Management in field crops, Weed Management, Citrus, University Diary and Technologies for farm women available.

## **22. Celebration of International Millet Year**

Government of India is celebrating 2023 as International Millet Year. University has planned to organize various activities to promote cultivation of millets and to increase its consumption in human diet. Activities like awareness programmes, crop demonstration, training programme, rallies, exhibition, exposure visits, distribution of millet seed kit to the farmers, cooking competition, etc will be organized through out year. In all 30 activities benefiting around 10500 farmers and women were organized during January to March 2023.





Organization of *Kharif* Farmers Rally  
18<sup>th</sup> May, 2022



Organization of *Rabi* Farmers Rally  
17<sup>th</sup> September, 2022



Organization of *Rabi* Farmers Rally  
17<sup>th</sup> September, 2022



Inauguration of *Rabi* Farmers Rally  
17<sup>th</sup> September, 2022



Organization of *Rabi* Farmers Rally  
17<sup>th</sup> September, 2022



Organization of Women Farmers Rally  
3<sup>rd</sup> January, 2023



***“Maza Ek Diwas Mazya Balirajasathi”***



Dr. Indra Mani, Hon.Vice-Chancellor, VNMKV, Parbhani inaugurated the programme  
“Maza Ek Diwas Mazya Balirajasathi” 01/09/2022





***“Maza Ek Diwas Mazya Balirajasathi”***







Shri. Abdul Sattar, Hon. Agriculture Minister,  
Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV,  
Parbhani in University Exhibition Stall



ATIC Training



Dr. Indra Mani, Hon. Vice-Chancellor, VNMKV, Parbhani  
addressing in World Soil Day



Global Millet Conference (*Shree Anna*), 2023



Plant Protection Campaign



Field Visit under  
*Vidyapeeth Apalya Dari, Tantradnyan Shetawari*



## Workshop on Safe Use of Pesticide



## University Administration

### University Officers

As per the Maharashtra Agricultural Universities Act, 1983(14) and statute, 1990, the following are the Executive, Academic and other Officers of Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani during the year 2022-23.

#### A) Executive Officers

1	Chancellor	Hon.Shri. Ramesh Bais
2	Pro-Chancellor	Hon.Shri. Abdul Sattar
3	Vice-Chancellor	Dr. Indra Mani

#### 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. B.M. Thombre
6	Associate Dean & Principal, COA, Ambajogai	Dr. S.D. Bantewad
7	Associate Dean & Principal, COA, Badnapur	Dr. R.D. Ahire
8	Associate Dean & Principal, COA, Osmanabad	Dr. K.R. Kambale
9	Associate Dean & Principal, COA, Golegaon	Dr. B.V. Asewar
10	Associate Dean & Principal, College of Agril. Engg. & Tech. Parbhani	Dr. U.M. Khodke
11	Associate Dean & Principal, College of Food Tech., Parbhani	Dr. R.B. Kshirsagar
12	Associate Dean & Principal, College of Community Science, Parbhani	Dr. Jaya Bangale
13	Associate Dean & Principal, Vilasrao Deshmukh College of Agril. Biotechnology, Latur	Dr. J.E. Jahagirdar
14	Post Graduate Institute of Agril. Business Management, Chakur	Prof. H.B.Patil
15	College of Horticulture, Parbhani	Dr. G.M. Waghmare
16	Associate Dean, Instructions, Parbhani	Dr. G.K. Londhe



### C) Heads of the Department

Agriculture		
1	Department of Agronomy	Dr. W.N. Narkhede
2	Department of Soil Science & Agril. Chemistry	Dr. P.H. Vaidya
3	Department of Plant Pathology	Dr. K.T. Apet
4	Department of Agril. Entomology	Dr. P.S. Neharkar
5	Department of Agril. Extension Education	Dr. R.P. Kadam
6	Department of Agril. Botany	Dr. H.V. Kalpande
7	Department of Agril. Economics	Dr. D.S. Perke
8	Department of Horticulture	Dr. G.M. Waghmare
9	Department of Animal Husbandry and Dairy Science	Dr. G.K. Londhe
10	Department of Agril. Engineering	Dr. R.G. Bhagyawant
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	Dr. A.D. Surve
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	Dr. Sunita Kale
19	Department of Resource Management and Consumer Science	Dr. Madhuri Kulkarni
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	Dr. D.R. Kadam
2	Comptroller	Smt. Deeparani Devatraj
3	University Engineer	Shri. D.S. Kashalkar
4	Student's Welfare Officer	Dr. Sachin More
5	Deputy Registrar (Exam)	Dr. G.A. Bhalerao
6	Deputy Registrar (Admn.)	Sh. P.K. Kale
7	Assistant Registrar ( Academic)	Sh. Ram Khobe
8	Librarian	Dr. S.D. Kadam

#### Vacancy position as on 31.3.2023

##### ABSTRACT

Sr. No.	Group	Sanctioned post	Filled in post	Vacant post
1	A	575	315	260
2	B	195	119	76
Filled post of Section Officer by deputation from Govt.		02	02	00
3	C	729	389	340
4	D	1386	465	921
<b>Total</b>		<b>2885</b>	<b>1288</b>	<b>1597</b>

#### Group –A

Sr.No.	Name of the Post	Sanctioned Post	Filled Post	Vacant Post
1	Vice Chancellor	01	01	00
2	Directors	03	00	03
3	Associate Dean & Principal	12	00	12
4	Head of the Department	10	06	04
5	Professor	44	22	22
6	Associate Professor	183	96	87
7	Assistant Professor	284	161	123
8	Programme Co-coordinator	04	02	02
9	Subject matter specialists	24	23	01
10	Registrar	01	00	01
11	Comptroller	01	01	00
12	University Engineer	01	00	01
13	Dy. University Engineer	03	00	03
14	Medical officer	01	01	00
15	Dy. Registrar	02	02	00
16	Students Welfare Officer	01	00	01
<b>Total</b>		<b>575</b>	<b>315</b>	<b>260</b>

### Group B

Sr.No.	Name of the Post	Sanctioned Post	Filled Post	Vacant Post
1	Security Officer	01	01	00
2	Assistant Registrar/ comptroller	18	10	08
3	PS/ PA to Hon. Vice Chancellor	02	01	01
4	Senior Research Assistant -Agri	67	45	22
5	Senior Research Assistant –Agri. Engg	01	00	01
6	Senior Research Assistant -Biotech	04	00	04
7	Senior Research Assistant -Food Tech	06	02	04
8	Veterinary Officer	01	00	01
9	K.V.K. Programme Asstt.-Laboratory Technician	04	03	01
10	K.V.K. Programme Asstt.-Computer	04	03	01
11	K.V.K. Programme Asstt.- Field Manager	04	03	01
12	Section Office ( Deputation from Govt.)	02	00	02
13	Section Officer	25	19	06
14	Assistant Section Officer	25	19	06
15	Assistant Superintendent (KVK)	04	03	01
16	Stenographer	21	06	15
17	Technical Asstt. (Lib)	04	02	02
	<b>Total</b>	<b>195</b>	<b>119</b>	<b>76</b>

### Group C

Sr.No.	Name of the Cadre	Sanctioned post	Filled post	Vacant post
1	Junior Research Assistant	74	36	38
2	Junior Veterinary Officer	01	0	01
3	Junior Engineer	6	3	3
4	Foreman Supervisor	1	1	00
5	Supervisor Home-Science	1	0	1
6	Draftsman	1	1	0
7	Senior Mechanic	2	1	1
8	Junior Mechanic	1	0	1
9	Tractor Driver	5	0	5
10	Truck Driver	4	3	1
11	Driver	42	14	28
12	K.V.K. Driver	8	5	3
13	Computer operator	2	0	2
14	Senior Clerk	66	56	10



Sr.No.	Name of the Cadre	Sanctioned post	Filled post	Vacant post
15	Steno-typist	4	2	2
16	Jr. Stenographer (Grade-III) KVK	4	1	3
17	Computer Operator	1	0	1
18	Junior Clerk	157	78	79
19	Library Asstt.	6	3	3
20	Reprographic Asstt.	1	0	1
21	Compounder	2	1	1
22	Agricultural Assistant	281	174	107
23	Agricultural Assistant (Engineering)	2	0	2
24	Agricultural Assistant (Bio-Tech)	2	0	2
25	Laboratory Assistant	15	0	15
26	Fieldman (Technical Instructor)	1	1	0
27	Electrician	8	1	7
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
41	Audio Visual Operator	2	0	2
<b>Total</b>		<b>729</b>	<b>389</b>	<b>340</b>

### Group- D

Sr.No.	Name of the Cadre	Sanctioned post	Filled post	Vacant post
1	Lab. Boy	52	13	39
2	Labour	938	330	608
3	Watchman	149	33	116
4	Peon	110	28	82
5	Grazer	6	0	6
6	Attendant	9	1	8
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	10	17
13	Rukhi / Walmiki	4	2	2
14	Pashudhan Parichar	1	0	1
15	Cook	3	1	2
16	Jamadar	1	1	0
17	Mali	19	4	15
18	Library Attendant	5	1	4
19	Laboratory Attendant	54	39	15
<b>Total</b>		<b>1386</b>	<b>465</b>	<b>921</b>

- **Universities Authorities Meetings :** The meetings of the various bodies of the University authorities such as Executive council, Academic Council, Agricultural Research Council, Extension Education Council Faculties and Board of Studies were conducted from 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 Education Council :** One meeting of the Extension Education Council was conducted during the period of report.
- **Faculty Meetings :** 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.

## University Finance

**MAU 2022-23**  
**REVENUE INCOME**  
 Group Summary  
 1-Apr-2022 to 31-Mar-2023

Particulars	Closing Balance	
	Debit	Credit
<b>ANIMAL HUSBANDRY RECEIPTS</b>		<b>44,92,152.00</b>
Animal Grazing Penalty		82,800.00
Sale of Fym(Senkhat)		3,600.00
Sale of Milk & Milk Produce		41,92,174.00
Sale of Poultry Products		2,13,578.00
<b>CAPITAL RECEIPTS</b>		<b>46,06,970.00</b>
Sale of Books & Periodicals		8,41,415.00
Sale of Furniture/tools/dead Stock (Auction)		29,41,698.00
Sale of Live Stock		8,23,857.00
<b>EDUCATIONAL RECEIPTS</b>		<b>16,91,42,232.00</b>
Admission / Regi. Fees		3,27,503.00
Bonafide Fees		2,46,502.00
Convocation Fees		2,500.00
Electricity Charges ( Student)		1,15,07,353.00
Eligibility Fees		4,51,050.00
Enrolment Fees		20,88,110.00
Examination Fee 25%		10,26,752.00
Examination Fees 75%		7,72,09,152.00
Fine & Dues		1,59,257.00
Grade Card Fees		14,63,710.00
Hostel Room Rent		60,72,910.00
Identity Card Fees		27,150.00
Insurance Charges From Student		30,156.00
Library Fee		58,32,401.00
Marklist & Provisional Certificate Fees		10,000.00
Medical Examination Fees		7,75,593.00
Migration Fees		8,50,150.00
ODC PDC Fees / Verification		32,53,580.00
Other Educational Receipts		97,23,215.00
Post Entry Quarantine Certificate Charges		17,60,000.00
Registration Fees ( Income)		9,62,310.00
Re-Recognition/Proceesing Fee Prvt School		13,33,600.00
Re-Recognition / Proceesing Fees Pvt Colleges		4,59,301.00
Sale of Prospectus		73,960.00
Transfer Certificate Fees		9,88,231.00
Tution Fees		4,25,07,786.00
<b>FARM RECEIPTS</b>		<b>3,25,16,151.16</b>
Sale of Bio Fertilizer		2,23,44,265.56
Sale of Cotton Lint		21,950.00
Sale of Fodder		1,09,840.00
Sale of Other Farm Produce		10,14,132.00
Sale of Trycoderma		90,25,963.60
<b>GENERAL REVENUE RECEIPTS</b>		<b>7,94,38,402.89</b>
Bank Interest Received		1,72,44,958.00
DAN Finger Printing Service		4,95,600.00
Dividend on Shares		72,018.00
Electric Charges Received( Cash)		73,91,677.00
E Tender		9,65,500.00
Other General Receipts		8,92,844.89
Quarter Rent Deduction		14,46,634.00
Rent of Buildings		11,11,214.00
Rest House Charges		1,37,231.00
<b>Carried Over</b>		<b>29,01,95,908.05</b>

continued ...



**MAU 2022-23**  
**REVENUE INCOME**  
 Group Summary  
 1-Apr-2022 to 31-Mar-2023

Page 1

Particulars	Closing Balance	
	Debit	Credit
<b>HORTICULTURE RECEIPT</b>		<b>82,94,529.00</b>
<i>Sale of Horticulture Produce</i>		32,27,493.00
<i>Sale of Plants / Nursery</i>		50,67,036.00
<b>SEED RECEIPTS</b>		<b>2,70,60,567.00</b>
<i>Sale of Seed</i>		2,70,60,567.00
<b>Grand Total</b>		<b>3,53,55,096.00</b>

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

**MAU 2022-23**  
**REVENUE INCOME** Group Summary : 1-Apr-2022 to 31-Mar-2023

Page 2

Particulars	Closing Balance	
	Debit	Credit
<b>Brought Forward</b>		<b>29,01,95,908.05</b>
<i>Sale of Implants</i>		3,315.00
<i>Sale of Publication &amp; Written Articles</i>		4,35,995.00
<i>Sale of Stationery / Cloth</i>		1,250.00
<i>Sale of Tender Forms</i>		23,200.00
<i>Soil Testing Charges</i>		1,83,700.00
<i>Testing Product Fees</i>		4,90,19,526.00
<i>Water Tax Received</i>		13,740.00
<b>HORTICULTURE RECEIPT</b>		<b>82,94,529.00</b>
<i>Sale of Horticulture Produce</i>		32,27,493.00
<i>Sale of Plants / Nursery</i>		50,67,036.00
<b>SEED RECEIPTS</b>		<b>2,70,60,567.00</b>
<i>Sale of Seed</i>		2,70,60,567.00
<b>Grand Total</b>		<b>32,55,51,004.05</b>

**REVENUE INCOME**  
 Group Summary  
 1-Apr-2022 to 31-Mar-2023

Page 1

Particulars	Closing Balance	
	Debit	Credit
<b>ANIMAL HUSBANDRY RECEIPTS</b>		<b>44,92,152.00</b>
<b>CAPITAL RECEIPTS</b>		<b>46,06,970.00</b>
<b>EDUCATIONAL RECEIPTS</b>		<b>16,91,42,232.00</b>
<b>FARM RECEIPTS</b>		<b>3,25,16,151.16</b>
<b>GENERAL REVENUE RECEIPTS</b>		<b>7,94,38,402.89</b>
<b>HORTICULTURE RECEIPT</b>		<b>82,94,529.00</b>
<b>SEED RECEIPTS</b>		<b>2,70,60,567.00</b>
<b>Grand Total</b>		<b>32,55,51,004.05</b>

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

# MAU 2022-23

## Expenses

Group Summary

1-Apr-2022 to 31-Mar-2023

Page 1

Particulars	Closing Balance	
	Debit	Credit
<b>Contingency</b>	<b>37,65,44,531.60</b>	<b>33,24,598.00</b>
HOSPITALITY EXPENSES	32,12,898.00	
MAINTAINCAE	4,48,87,641.00	29,09,150.00
MATERIAL & SUPPLIERS	3,84,51,075.00	
MOTOR VEHICLES ( FUNCTIONAL)	2,09,64,708.00	
OFFICE EXPENSES RECURRING	23,84,10,582.60	900.00
PROFESSIONAL & SPECIAL SERVICES	1,03,74,917.00	
PUBLICATION	88,714.00	
RENT , RATE & TAXES	38,61,496.00	
STIPEND & SCHOLARSHIP	1,62,92,500.00	4,14,548.00
<b>PENSION &amp; GRATUITY</b>	<b>1,51,91,54,549.00</b>	
Basic Pension	59,71,79,783.00	
Commutation of Pension	21,74,80,401.00	
Encashment of Leave	8,92,80,988.00	
Encashment Of Leave 7 Th Pay Difference	17,64,121.00	
Gratuity	16,05,04,013.00	
Pension Arrears.	19,38,38,855.00	
Pension Releif	25,91,06,388.00	
<b>SALARIES</b>	<b>1,34,65,56,442.00</b>	
6 Th Pay Arrears	2,09,684.00	
7th Pay Arrears	1,17,49,616.00	
7th Pay Arrears (Retired Employee)	30,80,443.00	
7th Pay Diffrence	45,48,134.00	
7th Pay I & II Installment	1,03,129.00	
7th Pay II Installment	89,442.00	
CLA & Other Allowance	61,25,011.00	
Contratual Salary	1,04,93,900.00	
Conveyance Allowance	1,49,01,564.00	
Dearness Allowance	45,45,69,287.00	
Grade Pay	68,15,014.00	
House Rent Allowance	6,51,28,889.00	
Medical Reimbursement	1,13,28,198.00	
Over Time	4,71,829.00	
Pay of Establishment	69,18,53,332.00	
Pay of Officers	6,35,77,586.00	
Washing Allowance	15,11,384.00	
<b>TRAVEL EXPENSES</b>	<b>41,97,943.00</b>	
T.A. TO Meeting Member	19,219.00	
T.A. to Staff Member	41,78,724.00	
<b>WAGES &amp; FIELD OPERATION</b>	<b>1,77,33,808.00</b>	
Cultivation Charges	850.00	
Field Operation	1,74,17,856.00	
Labour Wages	3,15,102.00	
Bank Charges	10,702.84	
Transfer T.A.To Staff Member	4,918.00	
<b>Grand Total</b>	<b>3,26,42,02,894.44</b>	<b>33,24,598.00</b>

  
**Comptroller**  
**V. M. K. V.**  
**Parbhwani**

## University Engineer

### Major infrastructural work undertaken during 2022-23

Sr.No.	Name of work	Amount (Rs.)
1	Providing and fixing paver block and water proofing to terrace for quarter No. A-7 in Sector-III, VNMKV Parbhani	263080
2	Repairing of D-type quarter No. 82 to 85 in Sector-I, VNMKV, Parbhani	259453
3	Water proofing to terrance for Department of Agriculture Entomology in Sector-I, VNMKV Parbhani	195526
4	Providing and fixing MS grill for well at Central Nursery VNMKV Parbhani	263297
5	Renovation of MIG quarter No. A-15 in Sector-III Parbhani	264866
6	Renovation of MIG quarter No. A-14 in Sector-III Parbhani	264827
7	Renovation and repair of A-27 quarter in Sector - II under VNMKV, Parbhani	263924
8	Providing and fixing paver block at Adm building left side VNMKV Parbhani	263107
9	Renovation of MIG quarter No. A-17 in Sector-III Parbhani under VNMKV, Parbhani	262420
10	Minor repairing of scientist bhavan and internation hostel in Sector-I, VNMKV Parbhani	263975
11	Construction of PCC bed and raft for periodical hall and entrance at library building COA, Latur under VNMKV Parbhani	247191
12	Renovation of C-type quarter No. C-7 in Sector-II under VNMKV Parbhani	264858
13	Providing and fixing aluminium partition and PVC wood type flooring at College of Agricutlure, Golegaon Tq. Aundha (N) Dist. Hingoli under VNMKV Parbhani	838571
14	Construction of parking shed and flag hosting pole at College of Agricutlure, Golegaon under VNMKV Parbhani	827233
15	Providing EI to cold and quto level laboratory under pathology Dept. in Sector-I under VNMKV, Parbhani	266731
16	Providing EI for office building for office building of Biomix Unit in Sector-I VNMKV, Parbhani	267716
17	Providing EI for Laminar air flow cab for college of Agriculture, VNMKV Parbhani	266946
18	Providing street light on roads at College of Agriculture, Badnapur	262539
19	Providing EI for Vasundhara Vastigruh under VNMKV, Parbhani	259921
20	Providing EI for training hall at KVK Badnapur	267150



21	Construction of PCC bed for reading room at Library building COA Latur	263616
22	Providing EI for meeting hall, SMS officer cabin at KVK Badnapur	256840
23	External colouring to Agriculture College Badnapur	264395
24	Providing and fixing water supply pipe line at ATS, Aurangabad	265263
25	Providing EI for Seed Processing plant and godown at NARP Aurangabad	211352
26	Minor repairs to Agriculture College of Badnapur	262920
27	Providing and fixing paver block for girls hostel Agriculture College of Badnapur	263451
28	Construction of common Incubation Centre, College of Food Technology, Parbhani	7810487
29	Repairs to quarter No. B-47 in Sector-I VNMKV Parbhani	263279
30	Repair of University Hospital building in Sector-I, VNMKV, Parbhani	263739
31	Strengthening of road and CD work at field farm under VnMKV Parbhani	254061
32	Providing and fixing paver block at DR hostel in Sector-II VNMKV Parbhani	230693
33	Repairing of quarter No. B-35 in Sector-I VNMKV Parbhani	122678
34	Providing and fixing chainlink fencing in front of Engineering College, VNMKV, Parbhani	253994
35	Providing and fixing guard railing and nala pitching in Sector-II VNMKV Parbhani	245957
36	Minor repair and water proofing treatment to terrace for C-type quarter No. C-16 and C-17 in Sector-II VNMKV Parbhani	183433
37	Providing and laying RCC pipe (NP-3 class of 1000 mm dia) in nala near horticulture college VNMKV, Parbhani	263739
38	Increaseing of height of existing compound wall (Balance work) at Sorghum Research Station, VNMKV, Parbhani	211036
39	Repairs to B-type quarter No. B-18 in Sector-III under VNMKV Parbhani	262177
40	Repairing of quarter No. C-54 in Sector-II VNMKV Parbhani	262916
41	Water proofing treatment and minor repairing of C-type quarter No. 74 and 75 in Sector-I, VNMKV, Parbhani	265162
42	Providing EI for 3 phase wiring of biomix building in Sector-I, VNMKV Parbhani	265957
43	Water proofing to tarrace for AT IC building in Sector-III VNMKV, Parbhani	264511
44	Providing of EI for stage and control panel room in hall No. 18 at Adm building VNMKV Parbhani	251984
45	Repairing of C-type quarter No. C-5 in Sector-II Parbhani	227687
46	Providing EI for toilet blocks street light and armard cable at KVK Badanpur	261819
47	Desilting of well at NARP Aurangabad	235208

48	Providing EI for soil testing lab and store lab and store room at KVK Badnapur	254031
49	Repairs of B-type quarter No. B-50 in Sector-I Parbhani	260883
50	Renovation of EI for hall No. 17 at Adm building VNMKV Parbahni	251486
51	Providing and fixing paving block in front of library building COA Latur under VNMKV Parbahni	251397
52	Providing and applying internal colouring to old DE office (for new UE	251893
53	Sanitation to girls hostel in agricultural college at Badnapur Tq. Badnapur Dist. Jalna under VNMKV Parbhani	252767
54	Providing and applying external colouring to college of agriculture, Badnapur under VNMKV Parbhani	251726
55	Providing and applying antitermite treatment to old DE office (for new UE office building) in Sector-I Parbhani under VNMKV Parbhani	247704
56	Providing and laying of drainage pipe line for boys hostel at COA, Badnapur	264430
57	Repairing of B-type quarter No. B-43 in Sector-I, Parbhani	250038
58	Water proofing to terrace for labour quarters at ATS Aurangabad	253054
59	Minor repairing of guest hostel suit No. 1 at Himayat Bagh Aurangabad	222507
60	Providing and fixing MS gate and chain link fencing at Agronomy and Engg. Dept. field college of Agriculture, Golegaon under VNMKV Parbhani	242724
61	Minor repairs to A-type quarter No. A-3 in Sector- VNMKV Parbhani	244677
62	Construction of boys hostel building at Golegaon Tq. Aundha (N) Dist. Hingoli for VNMKV Parbhani	93070698
63	Construction of cement concrete road at COA Golegaon Tq. Aundha Dist. Hingoli under VNMKV Parbhani	6271671
64	Construction of cement concrete compound wall at Golegaon Tq. Aundha Dist. Hingoli for VNMKV Parbhani	14613759
65	Providing and fixing vitrified tiles for Asstt. Librarian room at Library building COA, Latur	263828
66	Providing and fixing paver block and sliding window at DR hostel in Sector-II VNMKV Parbhani	125204
67	Providing and applying colouring to Syhadri hostel at Parbhani	263981
68	Construction of CC compound wall at Back side of Seed Processing Centre in Sector-I, Parbhani	251416
69	Renovation of C-type quarter No. C-49 in Sector-II Parbhani	247901
70	Providing and applying acrylic polymer for water proofing at Jijau girls hostel in Sector-II VNMKV Parbhani	251764
71	Developments of trichoderma laboratory in NARP Building at Aurangabad under VNMKV Parbhani	505961

## State Level Agricultural Exhibition - Sillod



Visit of Shri. Eknathji Shinde, Hon. Chief Minister of Maharashtra and Shri. Abdul Sattar, Hon. Minister for Agriculture to VNMKV Stall





INTERNATIONAL YEAR OF  
**MILLETS**  
2023



भारतीय कृषि अनुसंधान परिषद द्वारा विकसित  
**बायोफोर्टिफाइड (जैवसंवर्धित) किस्में**



**बाजरा**

<p><b>एचएचबी-299 :</b> आयरन : 73 पीपीएम जिंक : 41 पीपीएम 81 दिनों में पकता है।</p>	<p><b>आरएचबी 234</b> आयरन : 84 पीपीएम जिंक : 46 पीपीएम 81 दिनों में पकता है।</p>
<p><b>एचबी-1200 एफई :</b> आयरन : 73 पीपीएम 78 दिनों में पकता है।</p>	<p><b>एचबी-1269 एफई :</b> आयरन : 91 पीपीएम जिंक : 43 पीपीएम 82 दिनों में पकता है।</p>

**सामान्य किस्म**  
आयरन : 45 से 50 पीपीएम  
जिंक : 30 से 35 पीपीएम

**नरेन्द्र सिंह तोमर**  
मुख्य अतिरिक्त निदेशक, बाजरा, भारत सरकार

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**Vasant Rao Naik Marathwada Krishi Vidyapeeth  
Parbhani - 431 402**



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