56th Annual Report 2024-25

Dr. Panjabrao Deshmukh Krishi Vidyapeeth,
Akola (Maharashtra)

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56th Annual Report 2024-2025

Dr. Panjabrao Deshmukh Krishi Vidyapeeth,

Akola - 444 104 (Maharashtra)

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola

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PREFACE

It is with immense pride and satisfaction that I present the 56th Annual Report for the year 2024–25 of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. This report reflects the University's collective commitment to excellence in agricultural education, research, and extension. Over the past year, we have reaffirmed our dedication to the tripartite mission of teaching, research, and extension, which forms the foundation of our institutional progress.

In the academic sphere, we have implemented curricula aligned with emerging agricultural challenges, strengthened experiential learning and field-based education, and continued our efforts toward the capacity building of both faculty and students. These initiatives aim to equip our learners with the knowledge, skills, and practical exposure necessary to address contemporary agricultural issues effectively.

On the research front, our scientists have undertaken cutting-edge projects that bridge the gap between fundamental research and field-level applications. During 2024–25, the University achieved notable milestones in crop production and technology development. A total of 90 recommendations on various technologies were issued, 8 new crop varieties were released, and 9 agricultural implements were introduced, significantly contributing to agricultural advancement and farmers' welfare.

Through farmer training programmes, on-farm demonstrations, advisory services, and public–private partnerships, we have consistently worked to translate scientific innovations into practical solutions. I sincerely commend our extension teams for their dedicated efforts in engaging closely with farming communities, understanding their needs, and co-creating solutions that are locally relevant, scalable, and sustainable.

I express my heartfelt gratitude to the Hon'ble Chancellor for his guidance and support in the successful implementation of the University's programmes. I am also deeply indebted to the Hon'ble Chief Minister and the Hon'ble Minister of Agriculture, Government of Maharashtra, as well as the Pro-Chancellor of the University, for their invaluable assistance in the development of the institution. I extend my sincere thanks to the Maharashtra Agricultural Education and Research Council, Pune, for its continued cooperation, and to the Director General of the Indian Council of Agricultural Research, New Delhi, for financial and technical support. I also gratefully acknowledge the contributions of the members of the Executive Council and other constituent committees. My appreciation further extends to every faculty member, researcher, extension worker, administrative staff member, worker, and student whose dedication, creativity, and perseverance remain the cornerstone of our progress.

As we move forward into the coming year, let us renew our commitment to the noble cause of agricultural development. I trust that this report will serve as a source of valuable insight, inspire meaningful action, and strengthen our collective resolve to serve society through science, education, and sustainable agricultural transformation.

Thank you

Vice-Chancellor
Dr. Panjabrao Deshmukh Krishi Vidyapeeth,
Akola

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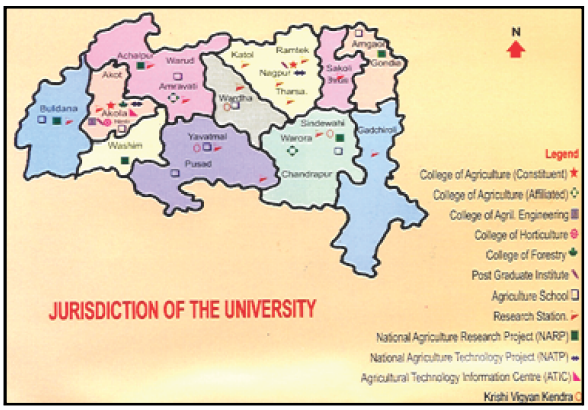
1. INTRODUCTION



The Dr. Panjabrao Deshmukh Krishi Vidyapeeth (www.pdkv.ac.in),was established in 1969, is a recognized public institution of higher education and an institutional member of the 56-strong State Agricultural Universities System in India,named after the illustrious son of our soil, Dr. Panjabrao Deshmukh, the brilliant Oxford University scholar and visionary Former Union Minister for Agriculture of India. The University was constituted to fortify region-specific and special needs of agricultural and allied-science and socio-economic development centered mandatory research, education, and technology generation goals, as also to strengthen imminent knowledge dissemination outreach imperatives. Extending jurisdiction over eleven Easterly districts of Vidarbha region of the Maharashtra State characterized by rainfed agriculture, Dr. PDKV is engaged in imparting global-standard agricultural education and research.

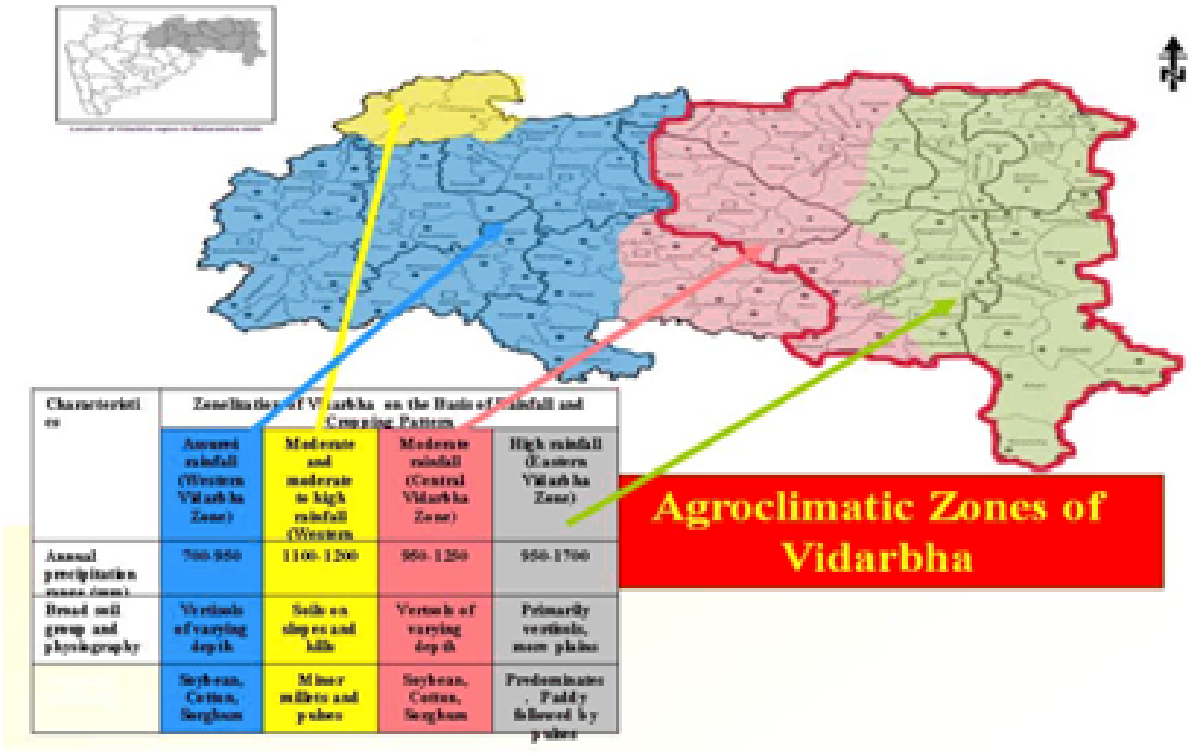
The University center at Akola and Nagpur, Gadchiroli, Yavatmal and Mul, Dist. Chandrapur has twelve Constituent colleges, two affiliated and twenty seven non-granted privately run affiliated colleges offered UG degree programmes namely, B.Sc.(Agri.), B.Sc.(Hort.), B.Sc.(Forestry), B.Tech.(Agri. Engg.), B.Tech.(Ag. Bio-Tech.), B.Tech. (Food Sci.) and B.Sc.(ABM.) two Master's degree programmes viz., M.Sc.(Agri.), M.Sc. Horticulture and M.Tech.(Agri. Engg.) and Doctoral degree programme in the Faculty of Agriculture, Horticulture and Agril. Engineering. The masters and doctoral programmes are run in only constituents colleges of the University at Akola and Nagpur campus except Shri Shivaji College of Agriculture, Amravati has the facility of P.G. programme leading to M.Sc.(Agri.) degree.

A Central Research Station is situated at the main campus where research projects are undertaken by crop scientists on various crops like cotton, wheat, sorghum, oilseeds and pulses.The Nagpur campus is accomplished with attractive garden surrounded by its natural beauty and a well-established Maharajbag Zoo which attracts the public and visitors of the city. A separate botanical gardenis being maintained on 22 hectares with a green house facility.

There are two agricuture college affiliated to the University. Shri Shivaji Agriculture College, Amravati and Anand Niketan Agriculture College, Warora, Dist. Chandrapur. Apart from this there are 27 unaided private colleges and degree courses like B.Sc. (Agri), Horticulture, Agril. Biotechonology, Food Technology, Agril. Engineering, Agri. Business Management. These colleges are respectively at Hiwara Ashram, Dist. Buldana two, at Jalgaon Jamod, Dist. Buldana three, Darwa, Dist. Yavatmal, Yavatmal, Wardha, at Amravati five, Tiwasa, Dist. Amrvati, Buldana, Deolgaon Raja, Dist. Buldana, Pimpalkhuta, Dist. Amravati, Gondia, Umerkhed, Dist. Yavatmal, Kesaldawa, Dist. Bhandara, Shirla Andhare, Dist. Akola, Risod, Dist. Washim, Khirdi, Dist. Chandrapur, Chamorshi, Dist. Gadchiroli, Amkheda, Dist. Washim, Konghara, Dist. Yavatmal, Sadak Aujuni, Dist. Bhandara.

Agro ecology and Soils of the region

Vidharba region is University jurisdiction comprises of 11 districts is divided into 3 zones on the basis of rainfall, number of rainy days, soilgroup, geography and cropping system. The zone receiving 700-950 mm precipitation with less than 52 rainy days having vertisols of varying depth has been identified as the assured *kharif* crop zoneconsisting of the districts namely, Buldana, Akola, Amravati and part of Washim district while thedistricts Yavatmal and Wardha and part of Nagpur are characterized as the moderate rainfall zonewith its precipitation in the range of 950-1250 mm and 52-62 rainy days having vertisol soils. High rainfall zone (1250-1700 mm) districts are Bhandara, Gondia, Chandrapur and Gadchiroli. Whereas, hilly tracks of Amravati district receiving rainfall in therange of 950-1700 mm have been categorized as moderate to high rainfall zone. The Vidarbha regionis endowed with rich forests. The region has an area of 27.5 lakh hectares under forest which accountsfor 52 per cent of the total forest area of the state and 28 percent of the geographical area of theVidarbha region. The major soils in the region are categorized in to Vertisols, Inceptisols and Entisols.



Characteristics	Zonalization of Vidarbha on the Basis of Rainfall and Cropping Pattern			
	Assured rainfall (Western Vidarbha Zone)	Moderate and moderate to high rainfall (Western	Moderate rainfall (Central Vidarbha Zone)	High rainfall (Eastern Vidarbha Zone)
Annual precipitation (mm)	700-950	1100-1200	950-1250	950-1700
Broad soil group and physiography	Vertisols of varying depth	Soils on slopes and hills	Vertisols of varying depth	Primarily vertisols, more plains
	Soybean, Cotton, Sorghum	Minor millets and pulses	Soybean, Cotton, Sorghum	Predominates , Paddy followed by pulses

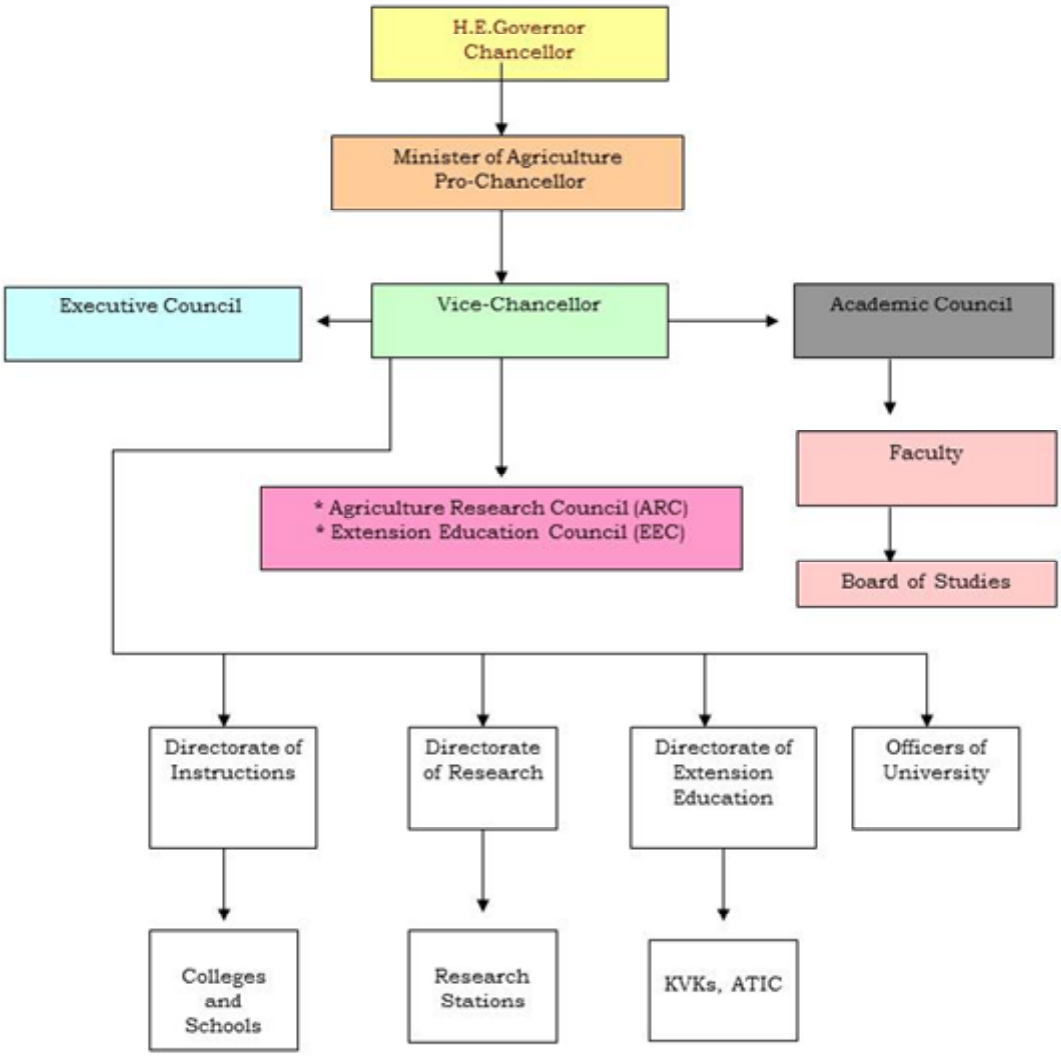
Cropping Pattern

Vidarbha Agriculture is dominated by rainfed farming with 90 percent of the cultivatedarea dependent on monsoon, therefore, farming in this region is mostly rainfed farming. The vagariesof monsoon are highly responsible forfluctuations in the crop yields.Food grains account forabout 50 percent of the gross cropped area while cotton and soybean are major cash crops of theregion having about 26 percent and 15 percent area, respectively. Paddy is an important crop ineastern region of Vidarbha and the share of paddy in total cropped area of Vidarbha is about 11 percent to the state of Maharashtra.

Different cropping patterns followed in Vidarbha region

2. ORGANIZATIONAL SETUP

Dr. Panjabrao Deshmukh Krishi Vidyapeeth was established by State Government underMaharashtra Act XVII, 1972 to accelerate the agricultural development in the region. The Chancellor, Pro-Chancellor and Vice-Chancellor through the Academic and other officers as per provisions in theAct and Statutes of the University govern the University. Synoptic structure of governance of the University is presented below



Structure of Governance of the University

University Authorities

The authorities of the University are

1. Executive Council
2. Academic Council
3. Faculties
4. Board of Studies and such other bodies as may be declared by the statutes

Executive Council

The Executive Council is the apex body which is executive and policy making authority of the University. The constitution of the Executive Council is shown in Table below.

Table : Constitution of Executive Council of the University

S. N.	Members	Position
1	Vice-Chancellor	Chairman
2	Commissioner (Agri.), M.S. Pune	Member
3	Commissioner (Dairy Development), M.S. Mumbai	Member
4	Director of Horticulture, M.S. Pune	Member
5	Chief Conservator of Forest	Member
6	One Director of the University (by rotation)	Member
7	One Dean of the University (by rotation)	Member
8	One Eminent Agricultural Scientist	Member
9	Five Progressive Farmers	Member
10	One Representative of ICAR, New Delhi	Member
11	One Agro-Industrialist	Member
12	Three Members of Legislative Assembly	Member
13	Two Members of Legislative Council	Member
14	Two Chairman of Agricultural Committee, Z.P.	Member
15	Commissioner (Animal Husbandry), M.S. Pune	Member
16	Commissioner (Fisheries), M.S. Mumbai	Member
17	Comptroller	Invitee-Member

2. Academic Council

The Academic Council of the University serves as an advisory body of the University and has the right to advise the Vice-Chancellor and the Executive Council on all academic, research and extension education matters. The constitution of the Academic Council is shown in Table below.

Table : Constitution of Academic Council of the University

S. N.	Members	Position
1	Vice-Chancellor	Chairman
2	Director of Instruction	Member
3	Director of Research	Member
4	Director of Extension Education	Member
5	Students Welfare Officer	Member
6	Deans of Faculties	Member
7	Associate Deans	Member
8	Two Principles of Affiliated Colleges & recognized Institutions	Member
9	Heads of Department of Faculties	Member
10	Chief Research Officer, In-charge of Research Station	Member
11	Chief Extension Education Officer	Member
12	One Academic Staff Member from each Faculty, Other than the Head of Department (Elected by the Faculty)	Member
13	Registrar	Member-Secretary

The Academic Council Co-opts not more than four members, for such period and in such manner, as prescribed, so as to provide adequate representation of different aspects of agriculture and such co-opts members have the right to take part in the proceedings of the council and also to vote like any other members of the council.

The Academic Council meets at least once before the beginning of each semester. The Academic Council studies and makes recommendations on the courses of study, curricula conduct of teaching, research and extension education within the university and the maintenance of their standards thereof.

University Administration

The organizational system of the University administration is presented in figure below. The Vice-Chancellor is the Head of the University and exercise all powers and performs all such duties which are laid down in MAU Act 1983. A flow chart reflecting the decision making process is presented in figure below.

The Governor appoints Vice-Chancellor for a period of five years. He is the chief executive and administrative officer to look after day to day working of the University. He is an ex-officio member and Chairman of the Executive Council and other authorities of the University as prescribed.

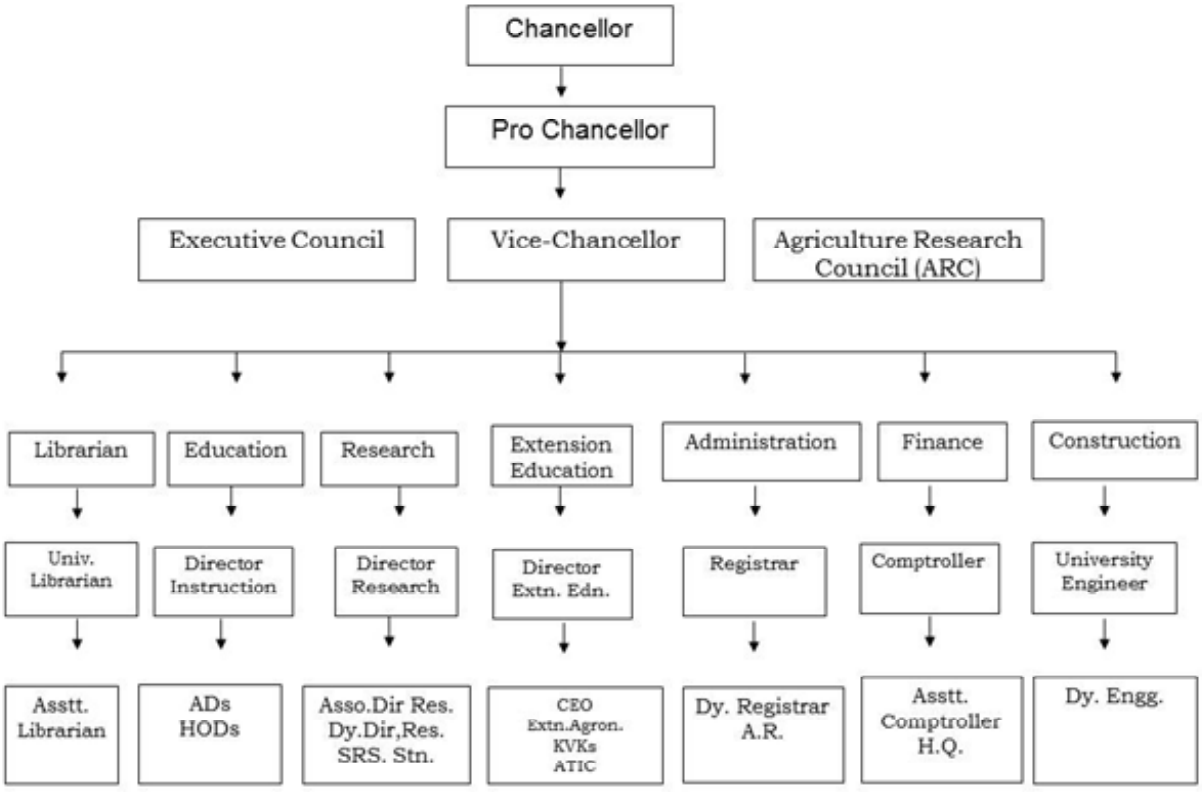


Fig. 1 : University Administration

3. EDUCATION

Introduction

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola was established in 20th October 1969. The mandatory function of this University are to perform agricultural education, research, extension and production of breeder and foundation seed in the Vidarbha region of the Maharashtra State.

The jurisdiction of the Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola extends to 11 districts of Vidarbha viz. Buldhana, Akola, Washim, Amravati, Yavatmal, Wardha, Nagpur, Bhandara, Gondia, Chandrapur and Gadchiroli.

Nagpur Revenue Division : Nagpur, Bhandara, Chandrapur, Wardha, Gadchiroli & Gondia

Amravati Revenue Division : Amravati, Yavatmal, Buldana, Akola &Washim.

The education, research and extension education programmes are conducted at the following institutions of the University.

SN	Graduate and Post Graduate Institute	Year of establishment
1.	College of Agriculture, Nagpur	1906
2.	College of Agriculture, Akola	1955
3.	College of Agricultural Engineering & Technology, Akola	1970
4.	Post Graduate Institute, Akola	1970
5.	College of Horticulture, Akola	1984
6.	College of Forestry, Akola	1985
7.	College of Agriculture, Sonapur, Gadchiroli	2009
8.	Vasantrao Naik College of Agril. Biotechnology, Yavatmal	2013
9.	College of Agriculture, Mul Maroda, Dist. Chandrapur	2019
10.	College of Food Technology, Yavatmal	2019
11.	Bhausaheb Fundkar College of Agriculture, Buldhana	2023
12.	School of Agri-Business Management, Nagpur, [PG Programme (Non grant basis]	2009
13.	Shri Shivaji College of Agriculture, Amravati (Affiliated)	1959
14.	Anand Niketan College of Agriculture, Warora, Dist: Chandrapur (Affiliated)	1965
Agriculture and allied colleges on non grant basis		
15.	Vivekanand Agriculture College, (Hiwara Ashram) Tq. Mehakar, Distt: Buldana	2003
16.	Swa. Vir G.I. Agriculture College, Jalgaon Jamod, Distt: Buldana	2003
17.	Marotrao Wadaphale Agriculture College, Umri Kalamb, Distt: Yavatmal	2003
18.	College of Agriculture, Darwha, Distt: Yavatmal	2003
19.	Bajaj College of Agriculture, Pipri Distt: Wardha	2003
20.	Shri Shivaji College of Horticulture, Amravati	2003
21.	Shri. Shivaji College of Agril. Biotechnology, Amravati	2004
22.	Sau. Vasudhatai Deshmukh College of Food Technology, Amravati	2004
23.	College of Agril. Engineering & Technology, Jalgaon Jamod, Distt. Buldana	2006
24.	Vivekanand College of Agri-Business Management, Hiwara Tq. Mehkar,Dist. Buldana	2007
25.	Shri Sant Shankar Maharaj Agriculture College, Pimpal Khuta, Amravati	2008
26.	Swa. R.G. Deshmukh Agriculture College, Tiwasa Distt. Amravati	2008
27.	Dr. Rajendra Gode Agriculture College, Buldana	2008
28.	Shri Samarth Agriculture College, Deulgaon Raja, Distt. Buldana	2008
29.	Sau. Vasudatai Deshmukh College of Agriculture, Bodna, Distt. Amravati	2009
30.	Manohar Bhai Patel College of Agriculture, Hiratola Tq. Goregaon Distt. Gondia	2009
31.	Swa. Veer G.I. College of Horticulture, Jalgaon jamod Distt. Buldana	2009

32.	College of Agriculture, Umarkhed, Dist Yavatmal	2010
33.	Shri Sevekbhau Waghae College of Agriculture, Kesalwada, Dist Bhandara	2010
34.	Smt. Sumitrabai Andhare College of Agriculture, Shirla, Dist, Akola	2010
35.	Suvidhe Foundation College of Agriculture, Risod, Dist. Washim	2011
36.	Kewalramji Harde College of Agriculture, Chamorshi	2015
37.	College of Agriculture, Konghara, Dist. Yavatmal	2015
38.	College of Agriculture, Amkheda, Dist.Washim	2015
39.	Rajarshi Shahu Maharaj College of Agriculture Business Management,Sadak Arjuni, Dist. Gondia	2015
40.	P.R. Pote Patil College of Agriculture, Amravati	2017
41.	College of Agriculture, Khirdi, Tq. Korpana, Dist. Chadrapur	2024
Lower Agricultural Education and Training Institute		
1.	Diploma in Agriculture (Two years)	
	1. Constituent Agricultural Schools	8
	2. Recognized Agricultural School	1
	3. Recognized Agricultural Schools (On non grant basis)	48
	4. Recognized Rural Institutes, Amravati and Wardha	2
2.	Mali Training Centers (Constituent)	4
3.	Krishi Vigyan Kendra	7
SN	**Research Institute**	**Number**
1.	Research Stations	19
2.	Educational Farms	11

The four Agricultural Universities in Maharashtra are governed by common Act called as "the Maharashtra Agricultural Universities (Krishi Vidyapeeths) Act, 1983". The Maharashtra Council of Agricultural Education and Research (MCAER) was established at Pune to co-ordinate the activities of all four Agricultural Universities of the State.

2. Educational Activities

Higher Education is imparted to award graduate, post graduate and doctorate degrees while diploma and certificates are awarded under lower agricultural education.

2.1 Graduate and Post Graduate Education

Seven undergraduate and two post graduate degree programmes are offered in this university (Table-1). There is semester system of education. Various degrees awarded by this University include.

Table-1: Number of Colleges Imparting Graduate and Post-Graduate degree.

Graduate	**No. of Colleges**		**Post Graduate**	**No. of Colleges**	
	Granted	**Non granted**		**Granted**	**Affi-liated**
B.Sc. (Agri.)	5+2 (Aided)	20	M.Sc. (Agri.)	2 (Affiliated)	1 (Non-aided)
B.Sc. (Hort)	1	2	M.Sc. (Hort.)	1	-
B.Sc. (Foresty)	1	-	M.Sc. (Fore.)	1	-
B.Tech. (Agril. Engg.)	1	1	M.Sc. (Agri-Bio)(Non-Granted)	1	-
B.Sc. (Bio-Tech.)	1	1	M.Tech. (Agril.Engg.)	1	-
B.Sc. (Food-Tech.)	1	1	M.B.M. (Non-Granted)	-	1
B.Sc. (A.B.M.)	-	2	-	-	-
Total	**12**	**27**	**-**	**6**	**2**

In addition to this, Ph.D. degree programme is available in Agriculture, Horticulture, Agricultural Engineering, Agricultural Biotechnology faculties at Akola.

2.1.1 Intake capacity and students on roll (Table 2)

College wise intake capacity and the number of students on roll are given below:-

1. Intake capacity and students on roll.

S.N.	Name of Colleges/ Institutes	Intake capacity		Total number of students on roll	
		U.G	P.G. +Ph.D	U.G	P.G.+Ph.D
1.	College of Agriculture, Nagpur	180+36 (ICAR)	109	733	213
2.	College of Agriculture, Akola	120	-	538	-
3.	College of Agricultural Engg. & Tech., Akola	60+5	-	198	-
4.	Post Graduate Institute Akola	-	247+56	-	533+119
5.	College of Horticulture, Akola	60+15% ICAR	38 + ICAR	160	37
6.	College of Forestry, Akola	50	-	192	-
7.	College of Agriculture, Sonapur, Gadchiroli	60	-	252	-
8.	Vasantrao Naik College of Agril. Biotechnology, Yavatmal	50	-	179	-
9.	College of Agriculture, Mul-Maroda, Dist. Chandrapur	60	-	164	-
10.	College of Food Technology, Yavatmal	40	-	108	-
11.	Bhausaheb Fundkar College of Agriculture, Buldhana	60	-	111	-
12.	School of Agri-Business Management, Nagpur, P G Programme (on non- grant basis)	-	30	60	-
13.	Shri Shivaji College of Agriculture, Amravati	180	18	639	36
14.	Anand Niketan College of Agriculture, Warora, Dist. Chandrapur	120	-	407	-
Agriculture and allied colleges on non grant basis					
15.	Vivekanand Agriculture College, Hiwara Tq. Mehkar Dist. Buldana	120	-	461	-
16.	Swa. Veer G. I. College of Agriculture, Jalgaon Jamod Dist. Buldana	120	-	422	-
17.	Marotrao Wadaphale Agriculture College, Gondhni Road, Yavatmal Dist. Yavatmal	120	-	387	-
18.	College of Agriculture, Darwha, Distt. Yavatmal	120	-	395	-
19.	Bajaj College of Agriculture, Pipri, Dist. Wardha	120	-	445	-
20.	Shri. Shivaji College of Horticulture, Amravati, Dist. Amravati	120	-	349	-
21.	Shri. Shivaji College of Agril. Biotechnology, Amravati, Dist. Amravati	100	-	277	-
22.	Sau. Vasudhatai Deshmukh College of Food Technology, Amravati	80	-	163	-
23.	Swa. Veer G.I. College of Agril. Engg., Jalgaon Jamod, Dist. Buldana	80	-	122	—
24.	Vivekanand College of Agri-business Management, Hiwara, Dist. Buldana	40	-	183	—
25.	Shri Sant Shankar Maharaj Agriculture College, Pimple Khuta, Dist. Amravati	120	—	394	—
26.	Swa. R.G. Deshmukh Agriculture College, Tiwasa Dist. Amravati.	60	—	189	—
27.	Dr. Rajendra Gode Agriculture College, Buldana Dist. Buldana	120	—	389	—
28.	Samarth Agriculture College, Deulgaon Raja, Dist. Buldana	120	—	377	—
29.	Sau.Vasudatai Deshmukh College of Agriculture, Bodna, Po. Pohra Bandi, Tq. & Dist. Amravati	60	—	183	—
30.	Manoharbhai Patel Agriculture College, Hiratola Dist. Gondia	120	-	406	-
31.	Swa. Veer G.I. College of Horticulture, Jalgaon Jamod, Dist. Buldana	120	—	246	—
32.	College of Agriculture, Umarkhed, Dist. Yavatmal	120	—	346	—
33.	Sevakbhau Waghaye College of Agriculture, Kesalwada, Dist. Bhandara	60	—	224	—
34.	Smt. Sumitrabai Andhare College of Agriculture, Shirla Andhare, Dist. Akola	120	—	378	—

35.	Suvide Foundation College of Agriculture, Risod, Dist. Washim	120	-	371	-
36.	Kewalramji Harde College of Agriculture, Chamorshi, Dist. Gadchiroli	120	-	326	-
37.	College of Agriculture, Konghara, Dist.Yavatmal	60	-	180	-
38.	College of Agriculture, Amkheda, Dist.Washim	60	-	221	-
39.	Rajarshi Shahu Maharaj College of Agriculture Business Management, Sadak Arjuni, Dist. Gondia	60	-	138	-
40.	P.R. Pote Patil College of Agriculture, Amravati	60	-	231	-
41	College of Agricultrue, Khirdi, Tq. Korpana, Dist. Chandrapur	60	-	-	-

2. Hostel Accommodation

S. N.	Name of Colleges/ Institutes	No. of rooms available for students	Total accommodation available for students	Actual accommodation provided to students
1.	College of Agriculture, Nagpur	366	566	484
2.	College of Agriculture, Akola	121	340	300
3.	College of Agricultural Engg. & Tech., Akola	83	166	148
4.	Post Graduate Institute Akola	299	364	346
5.	College of Horticulture, Akola	33	88	76
6.	College of Forestry, Akola	36	82	96
7.	College of Agriculture, Sonapur, Gadchiroli	82	164	80
8.	Vasantrao Naik College of Agril. Biotechnology, Yavatmal	54	162	147
9.	College of Agriculture, Mul-Maroda, Dist. Chandrapur	Hostel Accommodation is not available		
10.	College of Food Technology, Yavatmal	Hostel Accommodation is not available		
11.	Bhausaheb Fundkar College of Agriculture, Buldhana	Hostel Accommodation is not available		
12.	School of Agri-Business Management, Nagpur, P G Programme (on non- grant basis)	Hostel Accommodation in College of Agriculture, Nagpur		
13.	Shri Shivaji College of Agriculture, Amravati	22	66	59
14.	Anand Niketan College of Agriculture, Warora, Dist. Chandrapur	Hostel accommodation is not available		
Agriculture and allied colleges on non grant basis				
15.	Vivekanand Agriculture College, Hiwara Tq. Mehkar, Dist. Buldana	150	300	350
16.	Swa. Veer G. I. College of Agriculture, Jalgaon Jamod, Dist. Buldana	132	448	389
17.	Marotrao Wadaphale Agriculture College, Godhani Road, Yavatmal, Dist. Yavatmal	—	—	—
18.	College of Agriculture, Darwha, Dist. Yavatmal	—	—	—
19.	Bajaj College of Agriculture, Pipri Dist. Wardha	114	325	325
20.	Shri. Shivaji College of Horticulture, Amravati, Dist. Amravati	20	50	47
21.	Shri. Shivaji College of Agril. Biotechnology, Amravati, Dist. Amravati	25	100	42
22.	Sau. Vasudhatai Deshmukh College of Food Technology, Amravati	13	50	11
23.	Swa. Veer G.I. College of Agril. Engg., Jalgaon Jamod, Dist. Buldana	92	184	149
24.	Vivekanand College of Agri-business Management, Hiwara, Dist. Buldana	40	160	59
25.	Shri Sant Shankar Maharaj Agriculture College, Pimple Khuta, Dist. Amravati	69	340	255
26.	Swa. R. G. Deshmukh Agriculture College, Tiwasa,	–	–	–

	Dist. Amravati.			
27.	Dr. Rajendra Gode Agriculture College, Buldana, Dist. Buldana	59	59	118
28.	Samarth Agriculture College, Deulgaon Raja, Dist. Buldana	38	150	130
29.	Sau.Vasudatai Deshmukh College of Agriculture, Bodna, Po. Pohra Bandi, Tq. & Dist. Amravati	—	—	—
30.	Manoharbhai Patel Agriculture College, Hiratola, Dist. Gondia	80	250	140
31.	Swa. Veer G.I. College of Horticulture, Jalgaon Jamod, Dist. Buldana	46	92	92
32.	College of Agriculture, Umarkhed,Dist. Yavatmal	—	—	—
33.	Sevakbhau Waghaye College of Agriculture, Kesalwada, Dist. Bhandara	—	—	—
34.	Smt. Sumitrabai Andhare College of Agriculture, Shirla Andhare, Dist.Akola	—	—	—
35.	Suvide Foundation College of Agriculture, Risod, Dist. Washim	25	75	60
36.	Kewalramji Harde College of Agriculture, Chamorshi, Dist. Gadchiroli	—	—	—
37.	College of Agriculture, Konghara, Dist.Yavatmal	—	—	—
38.	College of Agriculture, Amkheda, Dist. Washim	06	40	—
39.	Rajarshi Shahu Maharaj College of Agriculture Business Management,Sadak Arjuni, Dist. Gondia	05	10	17
40.	P.R. Pote Patil College of Agriculture, Amravati	-	-	-
41.	College of Agriculture, Khirdi, Dist. Chadrapur	-	-	-

3.No. of students getting Scholarships and other facilities

S.N.	Name of Colleges/ Institutes	Scholarships				Concession in tuition fees
		Govt. of India	Govt. of MS	ICAR /NTS	Others	
1.	College of Agriculture, Nagpur	100	286	94	—	156
2.	College of Agriculture, Akola	305	100	72	—	405
3.	College of Agricultural Engg.&Tech., Akola	91	28	21	25	-
4.	Post Graduate Institute Akola	63	285	35	—	163
5.	College of Horticulture, Akola	129	23	06	—	—
6.	College of Forestry, Akola	101	16	12	—	101
7.	College of Agriculture, Sonapur, Gadchiroli	210	—	—	03	18
8.	Vasantrao Naik College of Agril. Biotechnology, Yavatmal	95	—	13	03	34
9.	College of Agriculture, Mul-Maroda, Dist. Chandrapur	27	107	—	—	134
10.	College of Food Technology, Yavatmal	71	14	—	—	01
11.	School of Agri-Business Management, Nagpur, P G Programme (on non- grant basis)	11	41	—	06	–
12.	Bhausaheb Phundkar College of Agriculture, Buldhana	15	96	—	—	–
13.	Shri Shivaji College of Agriculture, Amravati	619	—	—	—	—
14.	Anand Niketan College of Agriculture, Waroa, Dist. Chandrapur	320	--	—	60	—
Agriculture and allied colleges on non grant basis						
15.	Vivekanand Agriculture College, Hiwara Tq. Mehkar, Dist. Buldana	58	288	—	—	SC, ST, VJNT, SBC 100%EBC, OBC 50%
16.	Swa. Veer G. I. College of Agriculture, Jalgaon Jamod, Dist. Buldhana	265	51	—	—	SC, ST, VJNT, SBC 100%EBC, OBC 50%

17.	Marotrao Wadaphale Agriculture College, Gondhni Road, Yavatmal Dist. Yavatmal	67	249	—	21	SC, ST 100% SBC,VJNT, OBC, EBC-50%
18.	College of Agriculture, Darwha, Dist. Yavatmal	58	253	—	—	SC,ST,VJNT, SBC 100% EBC, OBC 50%
19.	Bajaj College of Agriculture, Pipri Dist. Wardha	293	63	—	31	SC,ST,VJNT, SBC 100% EBC, OBC 50%
20.	Shri. Shivaji College of Horticulture, Amravati, Dist. Amravati	220	50	23	—	SC, ST, VJNT, SBC 100%, EBC, OBC 50%
21.	Shri. Shivaji College of Agril. Biotechnology, Amravati, Dist. Amravati	71	46	18	—	SC,ST,VJNT, SBC 100% EBC, OBC 50%
22.	Sau. Va**sudhatai Deshmukh** College of Food Technology, Amravati	147	12	—	—	—
23.	Swa. Veer G.I. College of Agril. Engg., Jalgaon Jamod, Dist. Buldhana	112	05	—	—	SC,ST,VJNT, SBC 100% EBC, OBC 50%
24.	Vivekanand College of Agri-Business Management, Hiwara, Dist. Buldana	16	96	—	21	16
25.	Shri Sant Shankar Maharaj Agriculture College, Pimple Khuta, Dist. Amravati	271	18	—	12	EBC, OBC-50% SC, ST 100%, VJNT, 100%
26.	Swa. R. G. Deshmukh Agriculture College, Tiwasa, Dist. Amravati.	30	109	—	(EBC) 07	SC,ST 100% SBC, VJNT, OBC, EBC 50%
27.	Dr. Rajendra Gode Agriculture College, Buldana, Dist. Buldana	44	325	—	—	SC, ST 100% SBC,VJNT, OBC, EBC-50%
28.	Samarth Agriculture College, Deulgaon Raja, Dist. Buldana	47	316	—	—	—
29.	Sau.Vasudatai Deshmukh College of Agriculture, Bodna, Po. Pohra Bandi, Tq. & Dist. Amravati	126	27	—	01	—
30.	Manoharbhai Patel Agriculture College, Hiratola, Dist.Gondiya	--	329	-	-	-
31.	Swa. Veer G.I. College of Horticulture, Jalgaon Jamod, Dist. Buldana	176	32	—	—	—
32.	College of Agriculture, Umarkhed,Dist. Yavatmal	85	312	—	—	—
33.	Sevakbhau Waghaye College of Agriculture, Kesalwada, Dist. Bhandara	147	11	—	—	—
34.	Smt. Sumitrabai Andhare College of Agriculture, Shirla Andhare, Dist. Akola	70	250	—	—	—
35.	Suvide Foundation College of Agriculture, Risod, Dist. Washim	49	193	—	—	—
36.	Kewalramji Harde College of Agriculture, Chamorshi, Dist. Gadchiroli	245	06	—	—	—

37.	College of Agriculture, Konghara, Dist.Yavatmal	—	152	—	—	—
38.	College of Agriculture, Amkheda, Dist. Washim	147	17	—	—	—
39.	Rajarshi Shahu Maharaj College of Agriculture Business Management,Sadak Arjuni, Dist. Gondia	102	-	—	-	-
40.	P.R. Pote Patil College of Agriculture, Amravati Dist. Buldana	144	12	16	—	OBC, SCH 50% SC,SCH-100% ST SCH 100% VJNT/SCH EBC-50%
41.	College of Agriculture, Khirdi, Tq. Korpana,Dist.Chadrapur	-	-	-	-	-

4. Colleges Farm,

S.N.	Name of Colleges/ Institutes	Cultivable land (ha.) Irrigated	Non-irrigated	Non-Cultivable (Area in ha. under roads, buildings, forest etc.)	Total (ha.)
1.	College of Agriculture, Nagpur	61.84	116	171.38	349.22
2.	College of Agriculture, Akola	43.46	-	-	43.46
3.	College of Agricultural Engg. &Tech., Akola	0.40	15.90	3.78	20.08
4.	Post Graduate Institute Akola	20.00	116.17	44.82	180.99
5.	College of Horticulture, Akola	44.02	7.53	15.12	66.67
6.	College of Forestry, Akola	26.18	21.30	1.70	49.18
7.	College of Agriculture, Sonapur, Gadchiroli	—	6.50	18.18	24.68
8.	Vasantrao Naik College of Agril. Biotechnology, Yavatmal, Dist.Yavatmal	—	1.60	15.32	16.92
9.	College of Agriculture, Mul-Maroda, Dist. Chandrapur	—	3.00	27.00	30.00
10.	College of Food Technology, Yavatmal	—	—	4.15	4.15
11.	School of Agri-Business Management, Nagpur, PG Programme (on non- grant basis)	—	—	—	—
12.	Bhausaheb Phundkar College of Agriculture, Buldhana, Dist.Buldana	30.82	-	-	30.82
13.	Shri Shivaji College of Agriculture, Amravati	34.52	-	6.00	40.52
14.	Anand Niketan College of Agriculture, Waroa, Dist. Chandrapur	20.00	12.00	8.00	40.00
Agriculture and allied colleges on non grant basis					
15.	Vivekanand Agriculture College, Hiwara Tq. Mehkar, Dist. Buldana	20.37	20.21	8.80	49.38
16.	Swa. Veer G. I. College of Agriculture, Jalgaon Jamod, Dist. Buldana	38.42	1.62	2.89	42.93
17.	Marotrao Wadaphale Agriculture College, Gondhni Road, Yavatmal, Dist. Yavatmal	10.87	31.25	1.13	43.25
18.	College of Agriculture, Darwha, Distt. Yavatmal	12.78	27.46	1.50	41.74
19.	Bajaj College of Agriculture, Pipri, Dist. Wardha	30.32	8.39	1.92	40.63
20.	Shri. Shivaji College of Horticulture, Amravati, Dist. Amravati	35.49	4.74	1.16	41.4
21.	Shri. Shivaji College of Agril. Biotechnology, Amravati, Dist. Amravati	6.35	10.65	3.00	20.00
22.	Sau.Vasudhatai Deshmukh College of Food Technology, Amravati	0.81	13.45	0.15	14.41
23.	Swa. Veer G.I. College of Agril. Engg., Jalgaon Jamod, Dist. Buldana	2.60	16.39	1.05	20.04
24.	Vivekanand College of Agri-business Management, Hiwara, Dist. Buldana	11.84	7.91	2.14	21.89

25.	Shri Sant Shankar Maharaj Agriculture College, Pimple Khuta, Dist. Amravati	35.27	—	6.71	41.98
26.	Swa. R.G.Deshmukh Agriculture College, Tiwasa, Dist. Amravati.	9.02	29.86	2.33	41.21
27.	Dr. Rajendra Gode Agriculture College, Buldana, Dist. Buldana	11.00	34.42	1.99	45.41
28.	Samarth Agriculture College, Deulgaon Raja, Dist. Buldana	16.00	31.78	3.70	51.48
29.	Sau.Vasudatai Deshmukh College of Agriculture, Bodna, Po. Pohra Bandi, Tq. & Dist. Amravati	16.15	5.42	9.01	30.58
30.	Manoharbhai Patel Agriculture College , Hiratola, Dist.Gondia	12.72	9.00	18.00	39.72
31.	Swa. Veer G.I. College of Horticulture, Jalgaon Jamod, Dist. Buldana	17.96	2.58	0.08	20.62
32.	College of Agriculture, Umarkhed,Dist. Yavatmal	18.54	27.32	2.2	48.06
33.	Sevakbhau Waghaye College of Agriculture, Kesalwada, Dist. Bhandara	18.24	28.45	1.51	48.20
34.	Smt. Sumitrabai Andhare College of Agriculture, Shirla Andhare, Dist. Akola	19.61	21.58	1.31	42.50
35.	Suvide Foundation College of Agriculture, Risod, Dist. Washim	12.71	31.55	0.71	44.97
36.	Kewalramji Harde College of Agriculture, Chamorshi, Dist. Gadchiroli	10.00	26.74	3.36	40.10
37.	College of Agriculture, Konghara, Dist. Yavatmal	20.00	14.82	5.73	40.55
38.	College of Agriculture, Amkheda, Dist. Washim	22.59	17.82	7.21	47.62
39.	Rajarshi Shahu Maharaj College of Agriculture Business Management,Sadak Arjuni, Dist. Gondia	17.15	0.63	3.00	20.78
40.	P.R. Pote Patil College of Agriculture, Amravati	15.95	25.79	1.30	43.04
41.	College of Agriculture, Khirdi, Tq. Korpana, Dist. Chadrapur	13.00	17.41	0.18	30.59

Lower Agriculture Education

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola has independent faculty of lower agriculture education for imparting middle level agriculture education like Agriculture Diploma course, Agriculture Science Diploma course and Mali training certificate course.

Objectives

- To develop skilled manpower in agriculture.
- To provide practical oriented agriculture and agro-based technological education to rural youths
- To strengthen overall agricultural development of Maharashtra.

1. Two years Diploma in Agriculture (10th std. pass student)

Information of Constituent & Affiliated Agriculture Technical School

S N	Name of School	Intake capacity	Student admitted
1.	Agril.Tech. School, Hiwara Dist. Gondia	60	45
2.	Agril. Tech. School, Warud Dist. Yavatmal	60	60
3.	Agril. Tech. School, Selsura Dist.Wardha	60	60
4.	Agril. Tech. School, Mul Maroda Dist. Chandrapur	60	18
5.	Agril. Tech. School, Sawangi Dist. Nagpur	60	14
6.	Agril. Tech. School, Buldana Dist. Buldana	60	23
7.	Agril. Tech.School, Nimbi Distt. Akola	60	23
8.	Janta Agril. Tech. School, Amravati Distt. Amravati (Affiliated)	60	60
9.	Agril. Tech. School, Dharni, Dist. Amravati	60	60

Information regarding Private Non-Granted Recognized Agriculture Polytechnic

S N	Name of School	Intake capacity	Student Admitted
1	Agril. Tech.School, Mundgaon Tq. Akot, Dist.Akola	60	60
2	Agril. Tech.School, Shirla Tq. Patur, Dist. Akola	60	44
3	Agril. Tech.School, Karda Tq.Risod, Dist.Washim	60	60
4	Agril. Tech.School, Amkheda Tq.Malegaon, Dist.Washim	60	58
5	Agril. Tech. School, Medashi Tq.Malegaon, Dist.Washim	60	30
6	Agril. Tech.School, Rohana (Ijara)Tq.Manora,Dist.Washim	60	52
7	Agril. Tech.School,Kavthal Tq.Mangrulpir, Dist.Washim	60	54
8	Agril. Tech.School,Amdapur Tq.Chikhali Dist.Washim.	60	57
9	Agril.Tech.School,Shindakhed Raja Tq. Shindakhed Raja, Dist. Buldhana	60	60
10	Agril.Tech.School, Mataggaon(Bk) Tq. Shegoan Dist. Buldhana	60	60
11	Agril.Tech.School,Malkapur Tq. Malkapur Dist. Buldhana	60	60
12	Agril.Tech.School,Deulgaon Raja Tq. Deulgaon Raja Dist. Buldhana	60	60
13	Agril.Tech.School,Jalgaon (Jamod) Tq. Jalgaon (Jamod)Dist. Buldhana	60	60
14	Agril.Tech.School,SangludTq.Daryapur. Dist Amravati	60	60
15	Agril.Tech.School,ChincholiTq.Daryapur. Dist Amravati	60	59
16	Agril.Tech.School,BhilonaTq.Achalpur. Dist Amravati	60	60
17	Agril.Tech.School,Brhamanwada-Thadi Tq. ChandurBajar Dist.Amravati	60	60
18	Agril.Tech.School,Haturna,Tq.Warud. Dist. Amravati	60	51
19	Agril.Tech.School,Yavali (Shahid), Dist. Amravati	60	60
20	Agril.Tech.School,SavnerTq.Nandgoan Khandeshvar, Dist. Amravati	60	60
21	Agril.Tech.School,KongaraTq.Pantharkavla. Dist. Yavatmal	60	54
22	Agril.Tech.School,Amboda At.Post KavthaTq. Aarni, Dist.Yavatmal	60	60
23	Agril.Tech.School,Digras Tq.Digras.Dist.Yavatmal	60	59
24	Agril.Tech.School,Umari (Kalam) Tq.Kalam. Dist.Yavatmal	60	60
25	Agril.Tech.School,Buranda (khu) Tq.Morgaon, Dist.Yavatmal	60	59
26	Agril.Tech.School,Devgiri(Chintamani) Tq.Darvha, Dist.Yavatmal	60	45
27	Agril.Tech.School,BrhamangaonTq.Umred, Dist. Yavatmal	60	60
28	Agril.Tech.School,SavargaonTq.Narkhed, Dist. Nagpur	60	60
29	Agril.Tech.School,Pimla(kinkhed)Tq.Kalambeshwar, Dist.Nagpur	60	38
30	Agril.Tech.School,Dahegaon(Joshi) Tq.Parshivani, Dist. Nagpur	60	60
31	Agril.Tech.School,MondhaTq.Hingna. Dist. Nagpur	60	55
32	Agril.Tech.School,BesurTq.Bhivapur. Dist .Nagpur	60	60
33	Agril.Tech.School,NishiTq.Pavani, Dist. Bhandara.	60	53
34	Agril.Tech.School,Kandri (Jamb) Tq.Mohadi Dist. Bhandara	60	60
35	Agril.Tech.School,Murmadi (Tupkar) Tq.Lakhani Dist.Bhandara	60	60
36	Agril.Tech.School,Dhabe-Takadi(Aadarsha) Tq.Morgaon Arjuni Dist. Gondiya	60	60
37	Agril.Tech.School,Tidka,Tq.SadakArjuni Dist. Gondiya	60	53
38	Agril.Tech.School,Aarmori, Tq. Aarmori Dist. Gadchiroli	60	00
39	Agril.Tech.School,Aalapalli, Tq. Aarmori Dist. Gadchiroli	60	59
40	Agril.Tech.School,Shankarpur ,Tq. Desaiganj Dist Gadchiroli	60	41
41	Agril.Tech.School,Talodhi(Balapur)Tq.Nagbhid,Dist.Chandrapur	60	37
42	Agril.Tech.School,Nandori (Bu),Tq.Bhadravati,Dist.Chandrapur	60	09
43	Agril.Tech.School,Chogaon),Tq.Bramapuri,Dist.Chandrapur	60	50
44	Agril.Tech.School,Savali , Tq. Savali, Dist. Chandrapur	60	53
45	Agril.Tech.School,Anandvan, Tq. Varora, Dist .Chandrapur	60	48
46	Agril.Tech.School,Mandgaon, Tq. Samudrapur, Dist. Wardha	60	60
47	Agril.Tech.School, Hingni, Tq. Selu , Dist. Wardha	60	59
48	Agril.Tech.School, Kharangana (Gole),Tq.& Dist. Wardha	60	60

Practical Oriented Projects were incorporated in new syllabus of Agri. Diploma and were implemented at each Agriculture Technical School, which gives the practical training to student. Following are the Practical Oriented Project.

SN	Project	SN	Project
1	Vermi-compost	13	Goat & Sheep Rearing
2	Nursery Management	14	Soil, Water & Plant Testing
3	Green Housing Technology	15	Farm Machinery & Implements
4	Poultry	16	Agricultural Processing
5	Mushroom Production	17	Agro Tourism
6	Fish Farming	18	Watershed Development
7	Apiculture	19	Organic Farming
8	Seed Production Technology	20	NADEP Compost Fertilizer Production
9	Animal Husbandry	21	Medicinal Scented Plant Production & Processing
10	Drip & Sprinkler irrigation	22	Dairying
11	Silk Production	23	Bio-fertilizer & Bio-pesticide Production
12	Floriculture	24	Poly House Technology

2. Two-year Diploma in Agriculture Science (10th Std. passed student)

This course is running by the Rural Institute, Amravati & Pipri Wardha under the jurisdiction of the Dr. PDKV, Akola

SN	Name of Institute	Intake capacity	Student admitted
1	Principal, Rural Institute, Shivaji Nagar Amravati	40	40
2	Principal, Rural Institute, Pipri-Wardha, Dist.- Wardha	40	36

3. Certificate course in Mali Training (9th Std. Passed student)

This course is running at Akola, Nagpur, Katol and Achalpur under the jurisdiction of University.

SN	Name of Institute	Intake capacity	Student admitted
1	Incharge, Mali Training, Dr.PDKV, Akola	100	28
2	Incharge, Mali Training, Maharajabag, College of Agriculture, Nagpur	100	04
3	Incharge, Mali Training, RFRS,Katol, Dist.Nagpur	50	00
3	Incharge, Mali Training, ARS, Achalpur, Dist. Amravati	50	06

4. Hostel Accomodation :- Nil/-

5. Agricultural Technical School Farm:-

S.N.	Name of Colleges/ Institutes	Cultivable land (ha.)	Non-Cultivable (Area in ha. under roads, buildings, forest etc.)	Total (ha.)
1.	Agril.Tech.School,Hiwra,Dist.Gondia	3.00	7.53	10.53
2.	Agril.Tech.School,Warud,Dist.Yavatmal	20.67	06.51	27.18
3.	Agril.Tech.School,Selsura,Dist.Wardha	12.82	24.98	37.80
4.	Agril.Tech.School,Mul Maroda, Dist.Chandrapur	10.00	15.83	25.83
5.	Agril.Tech.School,Sawangi, Dist.Nagpur	20.00	35.97	55.97
6.	Agril.Tech.School,Buldhana, Dist.Buldhana	22.18	00	22.18
7.	Agril.Tech.School,Nimbi, Dist.Akola	40.00	22.47	67.57
8.	Agril.Tech.School,Dharani, Dist.Gondia	18.30	1.70	20.00

Examination Results – 2023-24

S N	Name of examination	No. of students appeared	Total No. of students passed
1.	Two years Diploma in Agriculture	2920	Result awaited
2.	Two year Diploma in Agril. Science	77	71
3.	Certificate course in Mali Training	39	Result awaited

4. RESEARCH

- Released cotton hybrid PKV Hy 2, hirsutum varieties AKH-081, PKV Rajat, AKH-8828, Suvarna shubhra in American cotton and varieties AKA-5, AKA-7 and AKA-8 in deshi cotton.
- Released Bt cotton hybrids PKV-Hy-2 (BG-II), PDKV-JKAL-116 (BG-II), Bt cotton varieties ICAR-CICR-PKV-081 (BG-I), ICAR-CICR-Rajat (BG-I) in American cotton.
- Released Soybean Varieties PDKV Yellow Gold, Suvarna Soya PDKV Purva and PDKV Amba.
- Released Paddy varieties PKV Khamang, Sakoli-9, PKV-Kisan, PDKV Tilak, PDKV Red Rice-1, PDKV Sadhana and PDKV Sakshi.
- Released sorghum varieties PKV Kranti (*rabi* season) and hybrid SPH-1635.
- Released sorghum hybrid CSH-14 (SPH-468) and CSH-19 (SPH-1010-R) at National level.
- Released sorghum variety CSV-45 at National level.
- Released *kharif* sorghum variety PDKV Kalyani and hurda purpose sorghum varieties PDKV Kartiki and TAKPS-5 Rabi sorghum.
- Released sorghum varieties PDKV Shashvat for *rabi* season.
- Released Wheat varieties AKAW-3722 (Vimal), AKAW-4627, (PDKV Washim) and AKAW-4210-6 (PDKV Sardar)
- Released Wheat varieties AKAW-5100 at National Level
- Released Gram Varieties JAKI-9218, PDKV Kanchan, PDKV Kanak, PDKV Super Jaki and PDKV Kabuli-5.
- Released Mung variety Green gold (AKM-9911) and pigeon pea varieties PKV Tara and PDKV Ashlesha.
- Released Mung variety PDKV-Varsha and PDKV- Phalguni
- Development of black gram variety TAU-1 having country wide demand and PDKV Black gold (AKU-10-1) variety.
- Released groundnut variety TAG-24 suitable for all seasons.
- Released PDKVG-335, TAG-73 varieties of groundnut and bold seeded groundnut variety AK-303.
- Developed sunflower variety TAS-82 and safflower varieties AKS-207, PDKV Pink and PDKV White.
- Released Sunflower hybrid PDKVSH-952
- Released Sunflower variety PDKVSH-964 (PDKV Suraj).
- Released Mustard varieties TAM-108-1, ACN-9 (Shatabdi) and PDKV Kartik.
- Released Linseed variety PDKV Sharda
- Released Maize variety BMH-18-2 (PDKV Arambh).
- Released Foxtail millet variety BFTM – 82 (PDKV Yashshree).
- Released linseed varieties NL-11 and PKVNL-260.
- Released Little millet variety PDKV Tejashree.
- Released Finger millet variety PDKV Aadishree
- Released mandarin varieties Nagpur seedless, PDKV Nagpur Santra and Katol Gold variety of Sweet Orange.
- Released Acid lime varieties PDKV Chakradhar, PDKV Bahar and PDKV Trupti.
- Released Wood apple Variety AKWa-1402 (PDKV Pratap).
- Released Khirni variety PDKV-Aadhar as an excellent rootstock for Sapota grafting.
- Released Custard apple variety PDKV-Sangam
- Released Turmeric variety PDKV Waigaon having high yield potential & curcumin.
- Released Brinjal variety AKLB-9, suitable for growing during summer & rainy season.
- Released Okra variety PDKV Pragati, Chilli variety PDKV Hirkani and Cowpea variety PDKV Rutuja and Onion variety Akola Safed.
- Released Garlic genotype AKG-07 (PDKV Purna).
- Released Chrysanthemum variety PDKV Bijali, Gaillardia variety PDKV Roshni, and Gladiolus variety PDKV Gold and PDKV Satpuda purple.
- Development of Mini Dal Mill for cottage industries having National demand.
- Developed PDKV self propelled pneumatic planter for precision sowing.
- Developed PDKV self propelled inter row cultivator.
- Developed PKV-Bullock drawn cotton planter.
- Developed PKV citrus harvester.
- Developed tractor operated PKV BBF planter cum inter row cultivator.
- Developed PDKV Tractor drawn Slasher for *in-situ* incorporation of crop residues.

- Developed small tractor operated inter row cultivator
- Developed integrated PKV mini dal mill.
- Released PDKV Green gram Wet dehuller
- Released PDKV Turmeric harvester
- Released PDKV hand operated custard apple deseeding machine
- Developed technology of preparation of turmeric powder after harvesting within 24 hrs
- Developed PDKV Lathyrus dal mill plant
- Developed PDKV biomass air heating system for drying of agricultural produce.
- Developed PDKV Solar Insect Trap, PDKV solar biomass hybrid
- Dryer and PDKV solar cabinet dryer
- Developed PDKV tractor operated garlic planter.
- Developed PDKV groundnut decorticator.
- Developed PDKV battery electric vehicle sprayer
- Developed PDKV Custard Apple Peel and Pulp Separation Machine
- Developed PDKV solar powered animal deterrent rotating light device for crop protection.
- Developed PDKV tractor operated turmeric harvester.
- Developed PDKV small tractor operated machine for production of pellets.
- Developed PDKV tractor drawn subsoiler attachment to rotavator.
- Developed PDKV Engine Operated Soybean Harvester
- Developed PDKV Power Operated Linseed Thresher
- PDKV manual drawn solar photovoltaic powered fertilizer broadcaster

Agroclimate

Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola has a jurisdiction of eleven districts of Vidarbha which are divided in to three Agro climatic zones viz, Eastern, Central and Western Vidarbha. The rainfall and crop condition during year 2023 is presented hereunder. Zone wise data on weekly rainfall and rainy days are presented in Table 1.

Western Vidarbha Zone (WVZ)

In WVZ southwest monsoon flow commenced weakly during 26 MW and rains were insufficient to initiate pre-sowing and sowing operations. Monsoon gradually regained vigour from 27 MW (2-8 July, 55.7 mm) and further sufficient rainfall during 28 MW (87.8 mm) expedited the sowing operations. Subsequently, sustained and significant amount of rainfall during 29MW (99.4 mm) and 30MW (71.5 mm) also hindered the remaining/later sowings and enhanced weed growth affecting the early potential growth of earlier sowings. Isolated areas suffered under water logging with consequent poor emergence of later sowings. However, about 94% of the *kharif* sowings were over by 25 July in Amravati division. Subdued monsoon activity prevailed across whole of August month (32mw to 35MW) with only 53.5 mm rainfall (6 light rainy days). During this period potential growth and development of *kharif* crops (soybean, mungbean, urdbean, cotton, pigeonpea etc.) were adversely affected. Particularly crops on shallow to medium soils had restricted growth and development due to deficient moisture status. This period coincided with square formation in cotton, flowering in soybean. In late sown areas this period coincided with vegetative phase (cotton, pigeonpea and sorghum) and bud/flower initiation phase (soybean/green gram/black gram) of *kharif* crops. Incidence of sap sucking pest (aphids, leaf hoppers, thrips and whitefly) was noticed in cotton from 34MW and it continued throughout the crop season. Subsequent to the deficient August month, sufficient rains (169.0 mm) with intermittent rain events across the 36 MW to 39 MW (September 03 to 30) enriched the soil moisture profile enhancing the growth and development of growing *kharif* crops. This period coincided with early reproductive phase of cotton, peak reproductive phase of soybean, vegetative development in pigeonpea. However, these rains created difficulties in harvesting of mungbean and urdbean crops. Dry weather prevailed across the whole of October month and this facilitated safe and timely harvesting of earlier sown soybean but affected seed development in late sown soybean crop. Dry October also adversely affected development phase of the pigeonpea, boll development in cotton, grain formation stage of sorghum and timely sowing of rainfed *rabi* crops. During this *kharif* season slightly late arrival of monsoon with large deficient June rainfall, high and consistent rainfall across second half of July followed by long dry spell coupled with higher temperature regime in August and dry October month overall declined the productivity of *kharif* crops especially soybean. Rainfall received during 48 MW (77.2 mm) benefitted growth and development of *rabi* crops. But in cotton it adversely affected produce quality of burst bolls. The boll rot infestation was negligible this year. Pink bollworm incidence was noticed from 42 MW and continued at increasing trend till end of crop season. In Nagpur mandarin, sweet orange and acid lime delayed *Mrig* flowering was observed due to insufficient rains in June. Whereas excess rainfall in

July with low sunshine hours, high soil moisture and fungal infection caused pre harvest fruit drop (28-34%) of *Ambia bahar*. Total rainfall received during 22-52 MW (2023) in WVZ was 678.0 mm (43 rainy days), which was 83% of normal.

Central Vidarbha Zone (CVZ)

In the Central Vidarbha Zone though the monsoon onset was evident at few places towards the end of 25MW, however, the onset phase was weak in terms of rainfall, quantitatively being only 70.6 mm summed across 25-26 MW. Subsequently during 27-30MW monsoon vigour increased and remained consistent with mostly light to moderate and isolated rather heavy rain events (total 434.1mm, 18 rainy days). Rainy weather across the period 27-30 MW though overall facilitated sowing and emergence of crops but sustained rains (29-30MW) at places also delayed later sowing, caused water logging/prolonged wet condition in low lying/poorly drained areas adversely affecting potential initial crop growth of earlier sown crops and emergence of late sown crops. Excessive rainfall resulted in vegetative growth at the cost of flowering (*Mrig*) which was delayed in mandarin and sweet orange. Monsoon activity slightly weakened during 31MW (24.6 mm) and 32 MW (4.4 mm) but regained vigour across 33-34 MW (103.5mm, 4 rainy days). In paddy growing areas (Tharsa) transplanting of paddy continued till end of 34 MW. Subsequently subdued rainfall activity during 35 MW facilitated need based intercultural and plant protection in growing *kharif* crops improving crop vigour. Monsoon remained mostly consistent across 36-39 MW cumulating 257.6 mm rainfall in 15 rainy days. These rains favoured reproductive development of *kharif* crops (Cotton, soybean, pigeonpea, sorghum etc.). However, mid-September rains (37-38MW) coincided with harvest ready mungbean and urdbean crops affecting quality of produce. In case of Nagpur mandarin fruit drop due to nutritional imbalance and fungal infection was observed during the month of September. Prevalence of mainly dry weather during October (6.9mm, 1 rainy day) favoured incidence of sucking pest and reddening; and hampered boll set/boll development in cotton. It also affected grain formation in sorghum and seed development in late sown soybean. Subsequent continuance of dry weather during major part of November also adversely affected the potential reproductive development of the pigeonpea. During the year 2023 rainfall was in deficit at critical growth stages of *kharif* crops. Rainfall received during 48-49 MW (43.8 mm, 3 rainy days) adversely affected the produce quality of burst bolls in cotton but it benefitted the *rabi* crops. During the season black fly, fruit sucking moth and lemon butterfly infestation was observed in citrus orchards. Overall, moderate yield of good quality *Ambia* fruits and moderate yield of good quality *Mrig* bahar mandarin fruits was reported this year. In CVZ, the total rainfall during 22 to 52 MW averaged for the zone amounted to 959.4 mm which was 103% of normal rainfall. Rainy days (51) were similar to the normal.

Table 1. Weekly rainfall (mm) rainy days in Vidarbha zone 2024

Met Weeks	Average (CVZ)		Average (WVZ)		Average (EVZ)		Three Zone Average 2024	
	Rainfall (mm)	Rainy days	Rainfall (mm)	Rainy days	Rainfall (mm)	Rainy days	Rainfall (mm)	Rainy days
22 (28-3 Jun)	0.9	0	4.9	0	0.5	0.00	2.09	0
23 (4-10)	10.6	1	26.8	2	13.9	0.67	17.09	1
24 (11-17)	8.0	1	41.9	3	14.3	0.83	21.41	2
25 (18-24)	61.0	4	17.8	2	49.4	2.33	42.77	3
26 (25-1Jul)	64.7	4	34.4	2	27.6	2.33	42.24	3
27 (2-8)	111.6	5	88.7	3	75.8	3.83	92.02	4
28 (9-15)	36.3	3	73.2	3	105.2	3.83	71.56	3
29 (16-22)	239.4	5	46.8	4	316.2	4.83	200.81	5
30 (23-29)	128.4	5	78.3	4	232.5	5.50	146.41	5
31 (30-5 Aug)	60.2	5	51.1	5	143.5	4.67	84.93	5
32 (6-12)	20.1	2	35.1	2	77.0	3.00	44.05	2
33 (13-19)	26.4	2	25.5	2	25.7	1.17	25.87	2
34 (20-26)	61.5	3	89.8	4	64.1	2.83	71.83	3
35 (27-2 Sep)	72.1	3	45.5	2	32.5	2.67	50.02	3

36 (3-9)	48.8	3	35.4	2	63.0	2.33	49.06	3
37 (10-16)	45.2	2	22.8	1	134.9	2.33	67.61	2
38 (17-23)	13.7	1	16.8	1	30.9	1.33	20.48	1
39 (24-30)	64.6	3	49.5	2	42.3	2.17	52.15	2
40 (1-7 Oct)	1.6	0	0.3	0	6.9	0.33	2.94	0
41 (8-14)	15.8	1	34.8	2	29.5	0.67	26.67	1
42 (15-21)	3.7	0	34.2	1	19.4	0.83	19.13	1
43 (22-28)	0.0	0	2.0	0	0.0	0.00	0.67	0
44 (29-4 Nov)	0.0	0	0.0	0	0.2	0.00	0.08	0
45 (5-11)	0.0	0	0.0	0	0.0	0.00	0.00	0
46 (12-18)	0.0	0	0.0	0	0.0	0.00	0.00	0
47 (19-25)	0.0	0	0.0	0	0.0	0.00	0.00	0
48 (26-2 Dec)	5.8	0	0.0	0	0.0	0.00	1.93	0
49 (3-9)	0.0	0	0.5	0	1.7	0.17	0.72	0
50 (10-16)	0.0	0	0.2	0	0.0	0.00	0.07	0
51 (17-23)	0.0	0	0.0	0	0.0	0.00	0.00	0
52 (24-31)	1.2	0	0.7	0	0.0	0.00	0.62	0
Total RF 22 to	**1101.8**	**53**	**856.8**	**49**	**1507.0**	**49**	**1155**	**50**
52 MW								
NORMAL	**930.9**	**52**	**811.2**	**44**	**1248.7**	**61**	**997**	**52**
% to Normal	**118**	**103**	**106**	**112**	**121**	**80**	**115**	**98**

Research Recommendations Accepted in Joint Agresco (2025)

S.N.	Varieties, Implements/Machinery and recommendations released	NO
I	**Crop Improvements**	
	i.Varieties Released	**08**
	ii. National Released -	**03**
II	**Farm Implements & Machineries**	**09**
III	**Crop Production Technology / Recommendation**	**70**
A	**Natural Resource Managements**	**18**
	I. Agriculture Botany	03
	ii. Agronomy	07
	iii. Soil Science and Agril. Chemistry	08
B	**Horticulture Crops**	**09**
	I. Fruit Science	02
	ii. Vegetable Science	04
	iii. Floriculture	02
	iv. Agroforestry	01
C	**Plant Protection**	**11**
	I. Entomology	08
	ii. Plant Pathology	03
D	**Agril. Engineering and Technology**	**16**
E	**Animal Husbandry and Dairy Science**	**01**
F	**Social Science**	**15**
	I. Agriculture Economics	09
	ii. Agriculture Extension	06
	Total	**90**

1) Varieties released

S.N.	Released Variety Salient features	Photograph of variety
1.	Sorghum (Rabi):PDKV Shashvat (AKASV 461 R)	• Grain yield: 31.8 q/ha. • Fodder yield: 78.66 q/ha. • Good Roti quality and Organoleptic quality. • Moderately resistant to shoot fly and stem borer. • Moderately resistant to charcoal rot, rust and leaf blight diseases. • Released for Rabi rainfed areas of Maharashtra.
2.	Finger milletPDKV Aadishree (BFM 8-E)	• Grain yield: 31.8 q/ha. • Early maturing variety (100-105 days). • It is moderately resistant to leaf blast and brown spot disease • Released in Maharashtra for kharif season.
3.	Mung:PDKV-Varsha (TAKM-141)(Kharif)	• Yield: 1076 kg/ha. • Top bearing for easy pod picking • Medium Bold seed type with non-shattering pods.Resistant to yellow mosaic virus disease.
4.	Mung (Zaid):PDKV- Phalguni (TAKSM-140)	• Yield: 9.09 kg/ha. • Suitable for summer cultivation in Maharashtra. • Matures in 70 days with synchronous maturity. • Attractive and shiny bold seeds. • 5.62 g per 100 seed weight. • Resistant to yellow mosaic virus disease.
5.	Chickpea:PDKV Kabuli-5 (AKGK1801)	• Yield: 2067 kg/ha. • Early and synchronous maturity (104 days). • Tall and erect in growth habit and suitable for mechanical harvesting. • Bold seeded (45 g per 100 seed wt.) • Resistant to Fusarium wilt.
6.	Linseed:PDKV Sharda (PDKV ANAL 371)	• Yield: of 1019 Kg/ha. · Oil content: 37.5%. • Moderate resistance to linseed bud fly and wilt.
7.	Khirni variety PDKV-Aadhar (MGK-31)	• Yield: 22.50 Kg/tree. • Excellent rootstock for Sapota grafting. • Maximum Seed Germination. • Early Germination. • High Seedling Vigour. • High Survival Percentage. • Good Graft Compatibility with Scion.
8.	Custard apple - PDKV-Sangam (CA-12-03)	• Fruit yield: 19.89 kg/tree. • Bigger fruit size: 11.91 cm (Equatorial diameter)12.79 (Polar diameter) • Average fruits/tree: 62.81.

		• Average fruit wt: 316.71 gm. • Pulp content: 63.11 %. • High TSS: 24.98°B.
9.	Wheat AKAW-5100 (Released at National Level)	• Yield: 49.3 qt/ha. • Maturity: 109 days. • Better quality of bread & chapati. • Heat and Drought tolerant • Resistant to black and brown rust.
10	Maize Hybrid PDKV Aarambha (BMH 18-2) (Released at National Level)	**Peninsular Zone** • Grain yield: 99.7 qt/ha. • Released in Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu & Telangana States for Kharif season. • Medium maturity (95-102 days). • Moderate resistant to stem borer and American army worm. **Central West Zone** • Grain yield: 111.1 qt/ha. • Released in Madhya Pradesh, Gujarat, Rajasthan & Chhattisgarh state for Rabi season. • Moderately resistant to Fusarium Stalk Rot
11	Sorghum CSV 65 Yellow (SPV 2906) (Released at National Level)	• Grain yield: 25-28 q/ha and fodder yield: 110-115 q/ha. • Duration: 110-112 days. • Biofortified high Zinc: 23.2 PPM and Iron: 30.8 PPM. • Protein content: 10.4 %.

2) Released Farm implements/machineries

S.N.	Released implement/machinery	Salient features
1	PDKV Engine Operated Soybean Harvester	• Suitable for harvesting the two rows of soybean crop simultaneously • Harvest the crop and lays it in the form of windrow which facilitates further collection of crop • The average harvesting losses was observed to be 3.16 %. • The effective field capacity and field efficiency were found to be 0.174 ha/h and 81.31 per cent, respectively. • 35.38 % saving in cost of harvesting over manually harvesting.
2	PDKV Power Operated Linseed Thresher	• Threshing efficiency 99.41%. · Threshing output capacity 25 kg/h.

		• Cleaning efficiency 96.97 %. • Overall grain losses 1.48 % • The saving in cost of threshing 37 % over the traditional method of manual threshing.
3	PDKV Bullock Drawn No Till Paddy Planter	• The developed bullock drawn no till paddy planter is suitable for direct paddy planting. • The paddy seed rates varied from 35.88 to 53.76 kg/ha. • The field capacity 0.18 ha/hr and efficiency is 86.44% was found. • Reduces cost, labour and drudgery by eliminating seedling uprooting, puddling and transplanting of paddy.
4	PDKV Energy Efficient Bio-Mass Based Distillation System for Essential Oil Extraction from Medicinal Plants	• Capacity of the system is 200 liters (20kg/batch). • Used to extract essential oil from medicinal plants. • Average extraction efficiency is 85%. • Better quality essential oils extracted than conventional method. • Biomass fuel consumption is less (6 kg/h) than conventional method.
5	PDKV Integrated Animal Deterrent Cum Solar Light Trap	• Operated completely on solar energy. • Suitable for two acres of area. • Simultaneous pest and wild animal control possible. • Suitable in integrated pest control. • Battery charging is through solar panel thus saves electricity.
6	PDKV manual drawn solar photovoltaic powered fertilizer broadcaster	• The width of vermi compost spreading was found 5.7 m. • Actual field capacity and field efficiency of fertilizer broadcaster was found 0.62 ha/h and 71.0 % respectively. • Broadcasting of vermi compost was found uniform at 300 rpm spinning disc. • Saving in cost of operation 68% over the traditional manual broadcasting method. • Device work continuously for 12 h.
7	PDKV Small Capacity Portable Grain Cleaner Cum Grader	• It is suitable for cleaning grading of soybean and other grains. • The machine can easily move from one field to another field. • Capacity: 100 kg/h.

		• Power requirement: 0.5 hp electric motor. • Cleaning efficiency: 88 to 90 %. • Grading efficiency: 87 to 89 %.
8	PDKV Mini Besan Mill	• Suitable for milling of *besan* from chickpea dal. • Capacity: 50 kg/h. • Motor: 8 hp • Recovery: 98 percent
9	PDKV mobile dryer for soybean drying	• PDKV tractor operated dryer is suitable for drying of soybean and other grains. • Capacity: 2 tons/batch. • Tractor requirement: 35 hp • Temperature can be controlled. • Fuel : 1.5 liters diesel per hour and 17 kg wood per hour.

1) Crop Production Technology Recommendations:

A Agricultural Botany

1 Dr. PDKV developed technology for micro propagation of Spine gourd var. Akra Bharat (*Memordica cochinchinesis* L.), a nodal segment of 2 cm size sterilized with 5% sodium hypochlorite 40 min = 0.2% Carbendazim, followed by 1.25 mg/L cefotaxime each for 60 min and explants inoculation on MS basic media (PH=5.8) supplemented each with 2 mg/L BAP + L-GA for it6s efficient shoot multiplication and MS + 1 mg/L NAA for high root induction, followed by hardening for 45 days with cocopeat: soil: FYM (1:2:1) proportion is recommended.

2 Bacillus thuringiensis isolates PDKV-Bt-SA-22, PDKV-Bt-SAk-12 and PDKV-Bt-SUd-1 are recommended for the submission in useful microorganism group and their further utilization in research.

3 Mustard genotypes ACN 226 and ACN 237 (PDKV Kartik) are terminal heat tolerant genotypes, therefore genotype ACN 226 and ACN 237 (PDKV Kartik) are proposed for registration.

B Natural Resource Management

I Agronomy

4 For higher seed yield and economic benefits in Vidarbha, sowing of rainfed chickpea is recommended from 15th Oct. to 04th Nov (42-44 MW). Delayed sowing in 05th-11th Nov (45 MW) results in 7% yield reduction, while 12th-18th Nov (46 MW) leads to 15% yield reduction.

5 For higher yield and monetary returns from Maize + Pigeonpea intercropping system, sowing of maize and pigeonpea in 6:1 intercropping system alongwith application of 180:90:90 NPK kg ha-1 is recommended.

6 For higher seed cotton yield and monetary returns under rainfed condition, sowing of cotton on broad bed and furrow and single spray of Salicylic Acid @ 100 ppm during long dry spell of rainfall is recommended.

7 In Eastern Vidarbha Zone for higher yield and monetary returns from rabi crops under zero cultivation sowing of chickpea crop is recommended after harvesting of kharif early varieties of rice.

8 For offseason soybean seed production only (upto 30% yield reduction compared to kharif season) sowing of soybean during 26th November to 2nd December (48th Met Week) is recommended.

9 For higher yield and net monetary returns, sowing of linseed on Broad Bed Furrow during 12-25 November (46th to 47th Meteorological Week) is recommended in Eastern Vidarbha.

10 For effective weed management, higher pod yield and net return of kharif groundnut pre-emergence application of diclosulam 84% WDG, 26 g a.i./ha (formulation-30 g/ha) fb propaquizafop 2.5% + imazethapyr 3.75%, 125 g a.i./ha (formulation-2.0 lit/ha) 25 DAS OR diclosulam 26 g a.i./ha (formulation-30 g/ha) as pre-emergence fb quizalofop ethyl 7.5% + imazethapyr 15%, 98.43 g a.i./ha (formulation-437.5 ml/ha) 25 DAS each through 500 litre of water are recommended.

ii Soil Science

11 Application of 300 kg natural zeolite ha-1 along with recommended dose of fertilizers (90: 45: 45 N, P and K kg ha^{-1}) is recommended for obtaining higher yield, monetary returns of Bt cotton and improving soil fertility in salt affected soils of Purna valley.

12 In medium deep black soil, for obtaining higher yield of sunflower, gross monetary return, oil seed quality and for improving the fertility status of soil, addition of biomass briquette ash @ 2.25 t ha^{-1} as a source of potassium along with recommended dose of 80:60 N P kg ha^{-1} is recommended.

13 To improve the nutrient balance and to achieve optimal fruit yield in banana fruit crop in Vidarbha, it is recommended that, new DRIS indices preferably for soil should be used fordiagnosing sufficiency and deficiency of nutrients. Accordingly, the blanket RDF of primary nutrients should be modified on the basis of new DRIS norms as: in very low/ deficient category- 50% more, low-25% more, optimum- no change, high- 25% less and very high/excess- 50% less. The secondary and micro-nutrients with most negative DRIS index value only should be applied as per RDF.However, it is also recommended to use either soil fertility or leaf nutrient or both new DRIS norms given in following tables as per convenient to farmers.

Table 1. New DRIS norms for soil fertility status of banana orchards

Soil parameter/ Available nutrient (unit)	Very low (Less than)	Low	Optimum	High	Very high (More than)
pH	7.12	7.13 - 7.47	7.48 - 8.17	8.18 - 8.52	8.53
EC (dSm^{-1})	0.0	60.07-0.11	0.12- 0.43	0.44 - 0.59	0.60
Organic Carbon ($g\ kg^{-1}$)	3.34	3.35 - 4.97	4.98 - 8.24	8.25 - 9.88	9.89
CaCO3 (%)	2.02	2.03-4.03	4.04-14.55	14.56-19.81	19.82
N ($kg\ ha^{-1}$)	150.00	151 - 194	195 - 282	283 - 327	328
P2O5 ($kg\ ha^{-1}$)	7.00	8 - 13	14 - 48	49 - 65	66
K2O ($kg\ ha^{-1}$)	268.00	269 - 453	454 - 824	825 - 1009	1010
Ca (c) mol(p+) kg^{-1})	12.45	12.46 - 21.14	21.15 - 38.52	38.53 - 47.2	47.21
Mg (c) mol(p+) kg^{-1})	2.05	2.06 - 4.1	4.11 - 24.58	24.59 - 34.82	34.83
S ($mg\ kg^{-1}$)	4.64	4.65 - 9.28	9.29 - 32.9	32.91 - 44.71	44.72
Fe (ppm)	0.74	0.75 - 1.47	1.48 - 14.15	14.16 - 20.48	20.49
Mn (ppm)	1.63	1.64 - 3.25	3.26 - 17.59	17.6 - 24.76	24.77
Cu (ppm)	0.60	0.61 - 1.2	1.21 - 4.87	4.88 - 6.71	6.72
Zn (ppm)	0.13	0.14 - 0.26	0.27 - 0.98	0.99 - 1.34	1.35
Yield ($ton\ ha^{-1}$)	74.00	75 - 86	87 - 109	110 - 120	120

Table 2. New DRIS norms for leaf nutrient status of banana orchards.

Leaf nutrient (unit)	Deficient (Less than)	Low	Optimum	High	Excess (More than)
N (%)	1.69	1.7 - 2.37	2.38 - 3.74	3.75 - 4.42	4.43
P (%)	0.11	0.12 - 0.22	0.23 - 0.43	0.44 - 0.54	0.55
K (%)	2.45	2.46 - 3.56	3.57 - 5.76	5.77 - 6.86	6.87
Ca (%)	0.34	0.35 - 0.68	0.69 - 2.49	2.5 - 3.39	3.40
Mg (%)	0.41	0.42 - 0.61	0.62 – 1.00	1.01 - 1.20	1.21
S (%)	0.15	0.16 - 0.31	0.32 - 0.64	0.65 - 0.80	0.81
Fe (ppm)	98.00	99 - 159	160 - 282	283 - 343	344
Mn (ppm)	273.00	274 - 547	548 - 1796	1797 - 2421	2422
Cu (ppm)	2.00	2.01 - 3.99	4 - 13.19	13.2 - 17.79	17.80
Zn (ppm)	5.79	5.8 - 19.79	19.8 - 47.78	47.79 - 61.77	61.78
Yield ($ton\ ha^{-1}$)	74.00	75 - 86	87 - 109	110 - 120	121

14 For higher seed cotton yield and monetary returns from Bt-cotton and improvement in soil fertility, application of 75 % (90:45:45 kg N, P2O5 and K2O ha^{-1}) recommended dose of fertilizers through Urea and Muriate of potash (MOP) in five splits through fertigation (with P as basal at sowing) is recommended under drip irrigation.

Fertilizer split	Percent split	Time
1st	10 % N & K (9 kg N + 4.5 kg K)	At sowing
2nd	20 % N & K (18 kg N + 9 kg K)	20 DAS
3rd	25 % N & K (22.5 kg N + 11.25 kg K)	40 DAS
4th	25 % N & K (22.5 kg N + 11.25 kg K)	60 DAS
5th	20 % N & K (18 kg N + 9 kg K)	80 DAS

15 For obtaining higher yield under rainfed Bt-cotton, it is recommended to apply foliar sprays of PDKV Micro-Grade XI @ 1 % at 45 and 60 days after sowing along with 100% (90:45:45 N, P_2O_5 and K_2O kg ha^{-1}) recommended dose of fertilizers

16 For obtaining higher yield and economic return of summer groundnut and for improvement in soil fertility status, soil application of recommended dose of fertilizer (25: 50:30 kg ha^{-1} N, $P_2O_5$and K_2O) with zinc EDTA + Fe EDDHA @ 1.5 kg ha^{-1} eachat the time of sowing along with foliar application of Zn EDTA @ 0.5 % + Fe EDDHA @ 1.0 % at 35 DAS and 65 DAS is recommended.

17 In zinc deficient soil for obtaining higher wheat yield, monetary return and for improving soil fertility status, soil application of zinc sulphate @ 15 kg ha-1 or zinc EDTA @ 1.5 kg ha^{-1} along with recommended dose of fertilizer (80:40:40 kg ha^{-1} N, P2O5 and K2O) is recommended.

18 Application of 50 % through FYM (6t ha^{-1}) or vermicompost (1.5 t ha^{-1}) + 50 % N through Gliricidia (4 t ha^{-1}) + Phospho-compost-phosphate rich organic manure (190 kg ha^{-1}) is recommended for rainfed organic cotton for sustainable productivity in vertisols.

C Horticulture

i Fruit Science

19 Spraying of NAA 300 ppm at fruit setting stage for abdonment of ambia bahar and getting higher yield and more economic return in subsequent mrig bahar of mandarin is recommended for Vidarbha region.

20 In Vidarbha region, for reduction of waibar disorder in Nagpur mandarin, it is recommended to apply following schedule per plant.

1. At the time of stress release (January) 300g N+150g P+150g K 1000 ppm+5Kg. $acre^{-1}$ Arka microbial consortium (Soil application).
2. After 1 month of 1st application (February) 300 g N + 150 g P + 150 g K
3. After 1 month of 2nd application (March) 300 g N + Foliar spray of 0.2 % micronutrients (Cu, Fe, Mn, Zn).
4. In the month of April – May spray of NAA 10 ppm.
5. In the month of June – July spray of Nimbodi Ark 5% + 2,4-D 10 ppm.
6. In the month of August – September, spray of Propergite 57% EC 0.2% + 1% Potassium nitrate (KNO3).
7. Seven doses of Jivamrut 10 L $plant^{-1}$ applied at 15 days interval (Jan-April).

ii Vegetable Science

21 For getting higher yield and monetary returns from organic seed production of fenugreek, application of vermicompost @ 3.0 t ha^{-1} OR FYM @ 6.0 t ha^{-1} OR enriched compost @ 3.5 t ha^{-1} + seed treatment of Rhizobium & PSB (@ 10ml/kg seed each) is recommended.

22 For getting higher yield and monetary returns from organic seed production of spinach, application of vermicompost @ 7.40 t ha^{-1} OR FYM @ 15.5 t ha^{-1} OR enriched compost @ 9.0 t ha^{-1} + seed treatment of Azatobactor & PSB (@ 10ml/kg seed each) is recommended.

23 For obtaining higher yield and monetary returns of turmeric, it is recommended to use finger rhizomes as planting material with soaking in GA3 100 ppm for 30 minutes and spraying of Cocycel 250 ppm at 60 and 90 days after planting.

24 For preparation of higher quality beetroot powder pre-treatment steam blanching of 3 mm thick beetroot slices for 3 minutes and cabinet tray drying at 50°C temperature for 12 hrs. is recommended.

iii Floriculture

25 Application of 250:100:100 kg NPK per hectare per year in four equal splits, first splits, first split at the time of clipping and remaining at three months interval after clipping is recommended for better vegetative growth, flower yield and bulb production of spider lily.

- At the time of clipping – First fortnight of June: 62.50:25:25 Kg, NPK/ha.
- At 90, 180 and 270 days after clipping: 62.50:25:25 Kg, NPK/ha.

26 Dipping of hardwood cuttings of Croton in IBA-400 ppm concentration solution for five minutes is recommended for commercial propagation.

iv Agroforestry

27 For preparation of energy pellets of higher calorific value from bamboo it is recommended to mix 10 % Moha cake + Sal cake as binder in equal proportion

D Animal Husbandry & dairy Science.

28 For preparation of good quality value added Paneer Whey beverage blending of 15 % Pomegranate juice with 0.5 % Ginger extract, 0.3 % Beetroot juice and 8 % Sugar in Paneer Whey is recommended.

E Plant Protection

i Plant Pathology

29 Alemow (Citrus microphylla) is recommended as a Phytophthora root rot tolerant rootstock due to its low susceptibility to root rot, the least feeder root rot rating and leaf fall percentage, and the lowest population density of Phytophthora.

30 For effective management of sooty mould disease in acid lime orchards, it is recommended to apply two sprays of mineral oil micro-emulsion adjuvant @ 5 ml per liter of water at an interval of 15 days as soon as black mold appears on the foliage.

31 Hypocrella raciborskii (Aschersonia) is recommended as a beneficial effective entomopathogen of citrus black fly.

ii Entomology

32 For effective management of pests like citrus psylla, fruit flies and fruit sucking moth causing fruit drop in Nagpur mandarine during Ambia bahar and for getting higher fruit yield with better economic returns it is recommended to adopt following plant protection module:

Plant Protection Module

June-July	• Installation of Yellow sticky traps 30/acre on 2.0 mtr height from soil surface from 1st week of June (trap change at monthly interval).
	• Spraying of neem oil 10 ml / L (1 %) with detergent powder at new flush during 1st week of June.
	• Foliar application of imidacloprid 17.8 % SL @ 0.5 ml / L of water during 1st week of July.
August-	• Foliar application of neem oil 10 ml / L (1 %) with detergent powder during 1st week of August.
September	• Foliar application of thiamethoxam 25 % WG @ 0.3 g/L water during 1st week of September.
	• Installation of poison bait consisting of malathion 50 % EC @ 10 ml + 100 g Jaggary + 100 ml mandarin juice + 900 ml of water (two bottles of poison bait per 25-30 trees) with a 60-watt bulb fixed over it to attract moths during night time during 2nd week of September
October-	• Installation of methyl eugenol trap @ 20 / ha during 1st week of October [change lure at every 15
November	-20 days interval].
	• Application of karanja oil @ 20 ml / L (2 %) with detergent powder during 1st week of October. ORJune-July
	• Spraying of karanja oil @ 20 ml / L (2 %) with detergent powder at new flush during 1st week of June.
	• Foliar application of thiamethoxam 25 % WG @ 0.3 g/L of water during 1st week of July. August-September
	• Foliar application of imidacloprid 17.8 % SL @ 0.5 ml / L of water during 1st week of August.
	• Installation of methyl eugenol trap @ 20 / ha during 1st week of August [change lure at every 15-20

days interval]

- Foliar application of thiamethoxam 25 % WG @ 0.3 g/L of water during 1st week of September.
- Generation of smoke in late evening hours in orchards to repel the adult of fruit sucking moth from 1st week of September onward October-November· Periodical collection and destruction of fallen fruits under trees at weekly interval starting from 1st week of October.
- Foliar application of neem oil @ 10 ml / L water (1%) with detergent powder during 1st week of October

33 For effective management of onion thrips and for getting higher bulb yield with better return following plant protection module is recommended.

- Installation of yellow and blue sticky traps @ 5 each/ acre at 20 days after transplanting.
- Spraying of neem oil 300 ppm @ 300 ml/10 L of water at 40 days after transplanting.
- Spraying of Verticillium lecanii 3.0 % AS @ 50 g / 10 L of water at 55 days after transplanting.
- Spraying of deltamethrin 11 % EC @ 3 ml/ 10 L of water at 70 days after transplanting.
- Spraying of fipronil 80 % WG @ 1.5 G /10 L of water 85 days after transplanting.

OR

- Spraying of lambda-cyhalothrin 5% EC @10 ml/10 L of water 40 days after transplanting.
- Spraying of dimethoate 30 EC @13.2 ml/10 L of water 55 days after transplanting.
- Spraying of deltamethrin 11 % EC @ 3 ml/ 10 L of water 70 days after transplanting.
- Spraying of fipronil 80 % WG @ 1.5 G /10 L of water 85 days after transplanting.

34 For effective management of sap-sucking pests on chilli, brinjal and tomato it is recommended to use 30 micron silver polythene mulch on soil at the time of transplanting these crops.

35 For effective management of gram pod borer on chickpea and getting higher returns, spraying of emamectin benzoate 5 % SG @ 4.4 g at 50 per cent flowering followed by spraying of a combi product, novaluron 5.25 % + indoxacarb 4.50 % SC @ 16.5 ml in l0 liters of water, 15 days after first application is recommended.

36 For effective management of linseed bud fly and getting higher yield, two applications of PDKV Dashparni extract [5 parts of neem leaves + 2 parts each of Ghaneri (Lantena camera), Karanj (Pongamia pinnata), Kanher (Nerium indicum), Castor (Ricinus communis), Gulvel (Tinospora cordifolia), Custard apple (Annona squamosa), Rui (Calotropis procera), Papaya (Carica papaya) and Nirgudi (Vitex negundo) leaves) or neem seed extract prepared by Rosukon method (i.e. fermentation of 3 parts of botanical + 1 part jiggery in 10 parts water for 3 months) @ 300 ml per 10 L of water at 10 days interval from bud initiation stage is recommended

37 For effective management of thrips and leafhoppers on summer groundnut and getting higher monetary returns, spraying of neem seed extract 5% at 15 days after seed germination followed by spraying of quinolphos 25% EC @ 28 ml/ 10 L of water at 30 days after seed germination is recommended.

38 For effective biorational management of citrus black fly after the initiation of infestation two sprays of entomapathogenic fungus Aschersonia aleyrodis (CFU 1.5 x 108 spore/ml) @ 20ml / 10 L of water at 15 days interval is recommended (Research Finding)

39 For effective management of chilli thrips and mites and for getting increased yield with maximum net return following plant protection module is found effective:

- Sweeping of castor oil treated white muslin cloth (6m x 2m) on crop in morning hours + installation of blue & yellow sticky traps (60:40) @ 40/acre and spraying of neem oil @ 3% + propergite 57 EC @ 30 ml in 10 L water at 15 days after transplanting
- Spraying of emamectin benzoate 0.5 SG @ 4 gm+ propargite 57 EC @ 30 ml in 10 L water at 30 days after transplanting
- Spraying of bioinnoculant (Verticilium lecani + Metarrhizium anisoplae + Beauveria bassiana) @ 40 ml in 10 L water at 45 days after transplanting
- Sweeping of castor oil treated muslin white cloth (6mx2m) on chilli crop in morning hours + installation of blue & yellow sticky traps (60:40) @ 40/acre and spraying of neem oil 3% + propergite
- 57 EC @ 30ml in 10 L of water at 60 days after transplantingSpraying of mixed insecticide flubendamide 19.92% + thiacloprid 19.92% @ 5ml /10 L water at 75 days after transplanting

F Agricultural Engineering & Technology

i Soil Water Conservation Engg.

40 PDKV developed seepage meter is recommended to measure seepage (Seepage and Percolation) losses from pond.

41 PDKV developed IoT based instrument used to measure evaporation and seepage losses with accuracy 98 percent for management of store water in the farm pond to scheduling the irrigation is recommended.

42 Combination of 70:30 (Farm Pond Water: Ground Water) is recommended for irrigation to cotton, pigeon pea and chick pea for higher productivity in Purna valley of Vidarbha region.

ii Irrigation & Drainage Engg.

43 It is recommended to use the crop coefficient values given in table for determining water requirement of cotton crop.

Week after sowing	Crop coefficient	Week after sowing	Crop coefficient
1	0.54	13	1.19
2	0.57	14	1.20
3	0.62	15	1.19
4	0.68	16	1.17
5	0.75	17	1.13
6	0.83	18	1.08
7	0.90	19	1.02
8	0.97	20	0.95
9	1.04	21	0.87
10	1.09	22	0.79
11	1.14	23	0.71
12	1.17	24	0.62

Alternative for above table following equation is recommended.

$$Kc_t=5.9661\left(\frac{t}{T}\right)^4-14.115\left(\frac{t}{T}\right)^3+8.3452\left(\frac{t}{T}\right)^2+0.1003\left(\frac{t}{T}\right)+0.5285$$

Kct - Crop coefficient of tth day.

t - Day after sowing

T - Total period of crop

44 It is recommended to use the crop coefficient values given in table for determining water requirement of pigeon pea crop.

Week after sowing	Crop coefficient	Week after sowing	Crop coefficient
1	0.54	14	1.15
2	0.56	15	1.16
3	0.59	16	1.16
4	0.64	17	1.15
5	0.70	18	1.13
6	0.76	19	1.10
7	0.82	20	1.05
8	0.88	21	1.00
9	0.94	22	0.94
10	1.00	23	0.87
11	1.05	24	0.79
12	1.09	25	0.72
13	1.13	26	0.64

Alternative for above table following equation is recommended.

$$Kc_t=5.3467\left(\frac{t}{T}\right)^4-13.253\left(\frac{t}{T}\right)^3+8.3885\left(\frac{t}{T}\right)^2+0.3899\left(\frac{t}{T}\right)+0.5476$$

Kct - Crop coefficient of tth day.

t - Day after sowing

T - Total period of crop

45 For clay loam soils in western Vidarbha region, it is recommended that the overhead sprinkler (4ft, 9 lpm, 50% overlapping) should be operated for four hours during critical stages of chickpea i.e. flowering and pod formation to maintain favourable moisture content in the root zone.

46 For high density plantation of Nagpur mandarin with spacing of 6m x 3m (Fully matured), application of water soluble fertilizers through drip fertigation with the dose of 663-220-330 (N-P-K, g/pant) or 368-122-183, (N-P-K, kg/ha) in 18 splits at 14 days interval as per schedule given below is recommended for getting higher yield and superior quality of fruits, with more economic returns.

Split schedule for fertigation:

S.N.	Stage	No of Days	No of splits	Split No	Quantity of fertilizers through drip g/plant					
					N		P		K	
					g/plant	kg/ha	g/plant	kg/ha	g/plant	kg/ha
1	Blossom	42	03	1	55.24	30.66	21.98	12.2	27.48	15.25
				2	55.24	30.66	21.98	12.2	27.48	15.25
				3	55.24	30.66	21.98	12.2	27.48	15.25
2	Fruit set	42	03	4	55.24	30.66	21.98	12.2	27.48	15.25
				5	55.24	30.66	21.98	12.2	27.48	15.25
				6	55.24	30.66	21.98	12.2	27.48	15.25
3	Fruit Growth Stage 1	84	06	7	38.67	21.46	7.32	4.06	16.49	9.15
				8	38.67	21.46	7.32	4.06	16.49	9.15
				9	38.67	21.46	7.32	4.06	16.49	9.15
				10	38.67	21.46	7.32	4.06	16.49	9.15
				11	38.67	21.46	7.32	4.06	16.49	9.15
				12	38.67	21.46	7.32	4.06	16.49	9.15
4	Fruit Growth Stage 2	84	06	13	16.50	9.16	7.32	4.06	10.99	6.1
				14	16.50	9.16	7.32	4.06	10.99	6.1
				15	16.50	9.16	7.32	4.06	10.99	6.1
				16	16.50	9.16	7.32	4.06	10.99	6.1
				17	16.50	9.16	7.32	4.06	10.99	6.1
				18	16.50	9.16	7.32	4.06	10.99	6.1
	Total	**252**	**18**		**663.06**	**368**	**220**	**122**	**330**	**183**

iii Renewable Energy Engg.

47 It is recommended to use the mixture of crop residues of cotton and pigeon pea crop having particle size 4 mm, 30±2 per cent moisture content and pyrolysed biochar 10 per cent for enhancing the quality of pellets during pelletisation through double roller flat die type pelleting machine.

iv Agril. Process Engg.

48 For preparation of millet based PDKV cookies, flour mixing speed with other ingredients as 400 rpm for 20 min and baking temperature of 180°C for 20 min is recommended along with following pre-treatments, a. Sprouting for pearl millet and proso millet grain b. Pearling for finger millet grain c. Blanching for sorghum grain

49 For preparation of millet based PDKV cupcake, flour mixing speed with otheringredients as 200 rpm for 15 min and baking temperature of 180°C for 25 minis recommended along with following pre-treatments, a. Sprouting for pearl millet and sorghum grain, b. Blanching for finger millet grain, c. Pearling for proso millet grain

50 For preparation of millet based PDKV toast, flour mixing speed with other ingredients as 400 rpm for 20 min and consecutive baking temperature of 180°C and 160°C for 25 and 20 min respectively is recommended along with following pre-treatments, a. Blanching for pearl millet and sorghum grain b. Sprouting for finger millet grain c. Pearling for proso millet grain

51 For preparation of millet based PDKV breadstick, flour mixing speed with otheringredients as 400 rpm for 15 min and baking temperature of 180°C for 15 minis recommended along with following pre-treatment,a. Pearling for

pearl millet and proso millet grainb. Sprouting for finger millet grainc. Blanching for sorghum grain is recommended.

52 PDKV developed process for pectin extraction from Nagpur mandarin peel is recommended for maximum pectin recovery.

53 PDKV-developed mocktail processing technology is recommended for preparation of mocktail from Nagpur mandarin fruit, after removal of peel the fruits blanched for 5 minutes and extracted juice used for the preparation of mocktail and storing it in glass bottles for up to 90 days

v Farm Structure Engg.

54 It is recommended to use PDKV developed hydroponic structure (length 25 m, width 19.5 m, height 5.5 m) for growing of leafy greens.Salient Features:

- NFT pipe length : 6 m
- No. of holes per pipe : 35
- No. of channels : 18
- Total no. of holes : 6300

55 It is recommended to use PDKV developed sensor based IoT device for monitoring and controlling environmental parameters (Temperature: 22-25oC, humidity 60-80% and light intensity less than 80,000 lux) in protected structures.

G Social Science

i Agricultural Extension Education

56 According to the study, 31.18 per cent of Agricultural Technical School diploma holders are engaged in entrepreneurship in areas such as dairy farming, poultry farming, goat rearing, vegetable cultivation, and vermicomposting. Meanwhile, current students are primarily interested in agricultural value-added products (81.25%), dairy farming (77.80%), poultry farming (65.42%), fruit and vegetable production (62.50%) and goat rearing (46.67%).

Therefore, it is recommended that relevant institutions should establish specialized study modules related to these areas in Agricultural Technical Schools for providing hands-on technical training facilities to the students.

57 In the study of technological gap in adoption of fruit drop management practices in mandarin, higher technological gap was found in drainage management (82.50%), proper selection of soil (77.91%), nutrient management (76.33%), selection of genuine planting material (71.67%) and pest and disease management (53.12%).

Hence, it is recommended that, while organizing the demonstrations and training programmes for mandarin growers, the major emphasis should be given on drainage management, proper selection of soil, nutrient management, selection of genuine planting material and pest and disease management practices by the extension agencies.

58 The study on soybean crop revealed that 50.00 per cent of soybean-growing farmers lacked knowledge about seed treatment and 43.00 per cent of farmers did not treat their seeds before sowing. Therefore, it is recommended that agricultural extension agencies should organize training programs to highlight the importance of seed treatment.

59 83.33 percent of the farmers expressed that the annual agricultural exhibition (AGROTECH) organized by Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola, was highly effective and the organization was satisfactory. Additionally, 75.83 per cent of farmers who visited the exhibition reported an increase in their knowledge. Therefore, it is recommended that the state government may provide independent funding to the four agricultural universities in the state to organize such exhibitions on a regular basis.

60 Farmers reported that the unavailability of biofertilizers and biocontrol products at the local level was a major constraint, resulting in limited use (38.08%). Therefore, it is recommended that Farmer Producer Organizations (FPOs) and extension agencies should arrange for quality biofertilizers and biocontrol products to be made available to the farmers at local level.

61 To protect the income of paddy growers, disrupt the life cycle of pests and diseases affecting paddy and to address challenges in adopting alternative crops for summer paddy, extension agencies should focus on strategic extension planning. Additionally, comprehensive extension programs should be implemented to promote alternative crops having higher monetary returns such as watermelon, tomato, brinjal, sesame, summer groundnut, and green gram.

ii Agricultural Economics

62 The productivity of Nagpur mandarin under Indo-Israel High density plantation technology was increased by 18.40 ton/ha over traditional method i.e. 218 per cent more. However, the additional return increased by 258 per cent. Hence, it is recommended that Indo-Israel High density plantation technology should be disseminated on large scale by Government through extension agencies

63 The farmers earned gross economic benefit of Rs. 636 Crores during last seventeen year (2007-08 to 2023-24) from PKV Kranti variety of sorghum released by Dr. PDKV, Akola. Hence, it is recommended that for economic upliftment of farmer, government should provide sufficient fund to the University for further research, extension and development for improved new varieties of sorghum, seed production and mechanization.

64 The benefit-cost ratio of summer vegetables i.e. okra (2.19), brinjal (1.93), tomato (1.86) and chilli (1.79) were estimated more than one along with better technical and economic efficiency. Hence it is recommended that the farmers of Eastern Vidarbha Zone should be motivated through extension agencies for cultivation of these summer vegetables for economic upliftment.

65 In Eastern Vidarbha Zone the benefit-cost ratio of Linseed (1.47) and Mustard (1.41) crops cultivation were more than one. Hence it is recommended that the farmers of Eastern Vidarbha Zone should be motivated for cultivation of Linseed and Mustard through extension agency for economic upliftment.

66 The BEP for Linseed and Mustard were 1067 and 441 kg oil along with percentage margin of safety 22 and 18 per cent respectively. The processing units for both the crops is profitable venture. Hence it is recommended that Government should provide the financial scheme for establishment of such processing unit in Eastern Vidarbha Zone and farmers should be motivated for establishment of processing unit through extension agencies.

67 Due to fruit drop in orange orchards per hectare, the percentage increase in productivity of high adopters of Standard Operating Practices (SoP) over low adopters was 51.14 per cent. Similarly total production losses and economic losses due to fruit drop have been decreased by 49.33 and 21.11 per cent respectively. Hence, it is recommended that, the university recommended Standard Operating Practices (SoP) to avoid fruit drop should be promoted and disseminated regularly through the extension agencies for high adoption.

68 The cropping intensity has increased from 117 to 124 per cent during the period 2023-24 to 2024-25. Similarly, the productivity of gram, safflower and wheat has increased by 1.42 to 12.46 q/ha, 1.88 to 7.75 q/ha and 15.32 to19.34 q/ha, respectively due to farm ponds. Hence, it is recommended that, Government should provide financial support to Government Institutions for establishment of farm ponds along with irrigation systems to enhance the seed production and motivate the farmers for establishing farm ponds through extension agencies

69 In India, to maintain the Equilibrium Price of Onion i.e. Rs. 1958 per quintal (year constant at 2024), the moderate arrival should be 14.07 lakh tons per month. In the month of March and June, Arrival index has been highest; however, price index has been lowest and vice versa situation was seen in the month of October, which deviates from moderate arrival and equilibrium price.

Therefore, it is recommended that the Onion export should be promoted in the month of March and June and buffer stock should be increased to stabilize the price through open market by NAFED (National Agricultural Cooperative Marketing Federation of India Ltd). However, Onion buffer stock can be released in the month of October. Farmers should be encouraged to construct the On-farm Modern Onion Storage Structures / Onion Storage Centers through Government schemes to control price fluctuation.

70 The arrival and prices of paddy, were negatively correlated at APMC market. However, the storage capacity is only 7 per cent of total production in Gadchiroli district. Hence, it is recommended that, to stabilize the prices of paddy Government needs to take initiative to increase the storage capacity and provide small to medium size godown to the farmers.

Seed production (q) of various stages of seed during 2024-25

During the year 2024-25, the university has produced about 490.31 q nucleus seed, 17682.43 q breeder seed, 413.75 q foundation seed, 1899.68 q certified seed and 2472.80 q truthful seed with total seed production of 23006.18 q. of different crop which is given below

Crop	Nucleus	Breeder	Foundation	Certified	Truthful	Total
Kharif-2024-25						
Soybean	323.62	8419.74	273.42	0.00	37.19	9053.97
Groundnut	1.37	13.40	0.00	0.00	3.00	17.77
Sesame	0.57	0.47	0.00	0.00	1.00	2.04
Sunflower	6.15	2.05	0.00	0.00	0.00	8.20
Sorghum	1.22	1.50	0.00	0.00	0.00	2.72
Cotton	0.23	7.56	0.00	0.00	26.00	33.79
Mung	1.91	57.45	0.00	56.23	0.00	115.59
Udid	1.71	111.56	0.00	107.73	0.00	221.00
Tur	1.61	281.93	0.00	132.56	12.40	428.50
Sunhemp	0.00	0.00	0.00	3.00	2.57	5.57
Dhencha	0.00	0.00	0.00	0.00	8.80	8.80
Paddy	11.45	506.45	50.36	1598.16	852.39	3018.81
Foxtail Millet	0.00	7.75	0.00	0.00	0.00	7.75
Little Millet	0.00	0.00	0.00	0.00	2.62	2.62
Finger Millet	0.00	0.00	0.00	0.00	3.79	3.79
Barnyard Millet	0.00	0.00	0.00	0.00	1.30	1.3
Maize	0.00	56.75	0.00	0.00	0.00	56.75
Vegetables	5.32	0.31	0.00	0.00	1020.30	1025.93
Total Kharif 2024-25	**355.17**	**9466.92**	**323.78**	**1897.68**	**1971.36**	**14014.90**
Rabi-2024-25						
Safflower	3.00	256.40	0.00	0.00	0.00	259.40
Sunflower	0.00	1.05	0.00	0.00	0.00	1.05
Sorghum	1.12	107.58	0.00	0.00	0.00	108.70
Wheat	22.50	246.72	0.00	0.00	64.00	333.22
Gram	67.50	7304.73	90.00	5.00	15.30	7482.53
Linseed	1.60	66.24	0.00	13.95	80.00	161.79
Mustard	0.65	38.73	0.00	27.25	15.25	81.88
Maize	1.00	20.00	0.00	0.00	0.00	21.00
Cotton	0.00	0.50	0.00	0.00	0.00	0.50
Sunhemp	0.00	0.00	0.00	0.00	7.00	7.00
Lathyrus	0.00	0.00	0.00	0.00	4.00	4.00
Vegetable Crop	8.12	109.26	0.00	0.00	307.09	424.47
Grand Total	**105.49**	**8151.21**	**90.00**	**46.20**	**492.64**	**8885.54**
Summer-2024-25						
Total Maize	**3.00**	**24.00**	**0.00**	**0.00**	**0.00**	**27.00**
Summer-2024-25						
Total Maize	3.00	24.00	0.00	0.00	0.00	27.00
Total Sesamum	0.80	12.70	0.00	2.00	5.50	21.00
Total Groundnut	24.00	28.00	0.00	0.00	0.00	52.00
Total Mung	1.84	0.00	0.00	0.00	3.30	5.14
Total Udid	0.60	0.00	0.00	0.00	0.00	0.60
Total Summer 2024-25	**30.24**	**64.70**	**0.00**	**2.00**	**8.80**	**105.74**
Total 2024-25 (Kharif, Rabi & Summer)	**490.31**	**17682.43**	**413.78**	**1945.88**	**2472.80**	**23006.18**

Externally Funded *Ad-hoc* Research Projects in the University

International Agencies Funded *Ad-hoc* Research Projects

Sr. No.	Title of Research Projects	Name of Nodal officer PI/Co-PI	Funding Agency	Project Cost (Rs. lakh)
1	Appraisal of productivity of cotton and quality of soil under different tillage and organic management systems	Dr. N.M. Konde Principal Investigator Dept of Soil Science	Research Institute of Organic Agriculture (FiBL), Switzerland	24.55
2	Post Graduate Diploma in Organic Management Systems and Certification	Dr.N.M.Konde Co-Course Director	Eco-cert, France and Cotton connect, UK	14.35
3	Agro Advisory Project	Dr. N.M. Konde Co-Principal Investigator	Solidaridad, The Netherlands	26.92
4	Nitrogen dynamics under multiple cropping systems in semi-arid tropics of Central India	Dr. S.D. Jadhao Principal Investigator, Dept of Soil Science	Environmental Defense Fund, USA	60.70
			Total	**126.52**

I. ICAR, DST, DBT and Other Central Government Agencies Funded *Ad-hoc* Research Projects

Sr. No.	Title of Research Project	Name of Nodal Officer / PI/ Co-PI	Funding Agency	Project Cost (Rs. lakh)
1	Demonstration of Drone Technology for Crop Protection in Agriculture	Dr. A.K. Kamble, Department of FPM	ICAR- (ATARI) Pune	18.7
2	Insecticide Resistance Management: Dissemination of pink bollworm management strategies" under centrally sponsored scheme on "NFSM: Commercial Crops	Shri. P. P. Patil, Cotton Research Unit	Ministry of Agriculture and Farmers Welfare, Govt. of India, Krishi Bhavan, New Delhi	28.77
3	ICAR-CRP Project on 'Biofortification in Selected Crops for Nutritional Security'	Dr. V.V. Kalpande, Sorghum Breeder	ICAR, New Delhi	60.44
4	BARC-BRNS Project on "Genetic Improvement of Sorghum (*Sorghum bicolor* (L.) Moench) for Grain Yield and Nutritional Qualities by Integrating Induced Mutations and Hybridization Approaches"	Dr. V.V. Kalpande, Sorghum Breeder	BRNS, Mumbai	25.98
5	ICAR– CRP on Agrobiodiversity, ICAR-NBPGR, New Delhi-National Network Project of ICAR on Sorghum Germplasm Characterization and Evaluation	Dr. V.V. Kalpande, Sorghum Breeder	ICAR-NBPGR, New Delhi	67.00

6	Protection of Plant Varieties and Farmers Rights Authority, New Delhi -DUS Testing Project on Pigeonpea and Safflower	Dr. Amrapali A. Akhare, STRU	ICAR- Protection of Plant Varieties and Farmers Rights Authority, New Delhi	8.82
7	Protection of Plant Varieties and Farmers Rights Authority, New Delhi -DUS Testing Project on Mungbean	Dr. Amrapali A. Akhare, STRU	ICAR- Protection of Plant Varieties and Farmers Rights Authority, New Delhi	8.00
8	Study on Determining Storage Losses of Pulses Stored in Warehouses and to Recommend Norms for Loss/Grain during Long Term Storage	Dr. P. H. Bakane, Research Engineer, AICRP on PHET	Department of Consumer Affairs Ministry of Consumer Affairs, Food and Public distribution, Government of India, through ICAR-CIPHET Ludhiana	89.18
9	Revivial of Sunflower Cultivation	Dr. S. J. Gahukar, Senior Research Scientist	DAC, Indian Council of Agriculture Education and Research New Delhi - Indian Institute of Oilseeds Research, Hyderabad	35.64
10	UTKARSH-PDKV, RKVY - RAFTAAR Agri -Business Incubation Centre (R-ABI) Dr. PDKV, Akola	Dr. S. J. Gahukar, Agri-Business Incubation Centre (R-ABI)	RKVY Division Ministry of Agriculture & Farmers welfare, Govt. of India, New Delhi	659.50
11	Centre of Entrepreneurship Development for IoT in Agriculture at Dr.P.D.K.V. Akola	Dr Suchita V. Gupta (PI), Head Deptt. of Farm Structure	Ministry of Electronics and Information Technology, Govt. of India, New Delhi	1095.00
12	Leveraging Genetic Resources for Accelerated Genetic Improvement of Linseed Using Comprehensive Genomics and Phenotypic Approaches (Genetic improvement of linseed for bud fly tolerance)	Dr. Beena Nair, Linseed Breeder, AICRP on Linseed and Mustard	NBPGR-DBT- New Delhi	112.95
13	Seed hub on linseed	Dr. Beena Nair, Linseed Breeder, AICRP on Linseed and Mustard	Ministry of Agriculture and Farmers Welfare, Govt. of India, Krishi Bhavan, New Delhi	100.00

14	Developing Food-grade Soybean using CRISPR/Cas9 mediated multiplex genome editing BT/PR38279-GET/119/351/2020	Dr. P. V. Jadhav, Associate Professor, Biotechnology Centre	Department of Biotechnology (DBT), GoI, New Delhi	25.17
15	Development of major allergen β-conglycinin free soybean using multiplex genome editing	Dr. P. V. Jadhav, Associate Professor, Biotechnology Centre	Department of Science and Technology (DST-SURE), Ministry of Science and Technology, Government of India, New Delhi	26.80
16	Markers assisted pyramiding of multiple traits contributing food grade quality with enhanced resistance to Macrophominaphaseolina in elite soybean genotype DST/WoS-A/LS/253/2021	Dr. P. V. Jadhav, Associate Professor, Biotechnology Centre	Department of Science and Technology, (DST-WoS-A), Ministry of Science and Technology, Government of India, New Delhi	37.30
17	Accelerated development of Kunitz trypsin inhibitor free soybean genotype with charcoal rot resistance through marker assisted selection	Dr. P. V. Jadhav, Associate Professor, Biotechnology Centre	Department of Bio-Technology (DBT), GoI, New Delhi	42.51
18	Development of nano biocatalyst for the hydrolysis of different lognocellulosic biomass with special reference to the production of bioethanol and other high-value products	Dr. A.P. Ingle, Biotechnology Centre	Science and Engineering Research Board, New Delhi	118.00
19	Centrally sponsored agency scheme on seed spices under MIDH	Dr.V.S. Kale, Deptt. of Veg. Sci.	Directorate of Arecanut and Spices Development, Calicut, Kerala	137.75
20	Climate Adaptive Maize for Stress Vulnerable Agro-ecologies (CAMSA)	Dr. Dinesh Kanwade, In-charge, ARS, Buldhana	Department of Agriculture Welfare,Ministry of Agriculture & Farmers Welfare, Govt. of India	17.17
21	"Enhancing Pigeon pea Production and Productivity in India by promoting high-yielding early maturing varieties and hybrids"	Dr. V L. Gawande, Professor (Ag. Botany) & Senior Scientist	Pigeonpea Network Project of ICRISAT, Hyderabad, under NFSM, Govt. of India	21.00
22	Drone Purchasing and Demonstration	Shri. M.B. Dhole Senior Scientist and Head KVK, Yavatmal	ATARI, Pune	17.50

23	Special Project on Cotton	Shri. M.B. Dhole Senior Scientist and Head KVK, Yavatmal	CICR, Nagpur	49.41
24	Adoption and Use of Biofertilizer viz. Rhizobium, Phosphate solubilizing Bacteria(PSB) Azotobacter and Trichoderma	Dr. J. R. Katore, Senior Scientist and Head KVK, Selsura	NABARD, Pune	4.85
25	Technology Targeting Agro - ecological zones-large scale demonstration of best practices to enhance cotton productivity	Dr. J. R. Katore, Senior Scientist and Head KVK, Selsura	CICR, Nagpur	18.10
			Total	**2825.54**

II. State Govt, CM Fund, DPDC, ATMA& Other State Govt. Agencies Funded*Ad-hoc* Research Projects

Sr. No.	Title of Research Project	Name of Nodal Officer/PI/Co-PI	Funding Agency	Project Cost (Rs. lakh)
1	Establishment of Demonstration Plots to Exhibit Best Cultivation Practices to Farmers in Central Vidarbha region.	Dr. V. M. Ilorkar, AICRP on Agro-forestry, CoA, Nagpur.	Maharashtra Bamboo Development Board, Nagpur	15.00
2	BRTC- Fellowship for Research and Development in Bamboo.	Dr. Vijay M. Ilorkar, AICRP on Agroforestry, CoA Nagpur	Agriculture Department Under Agro-forestry Sub Mission	18.00
3	Centre of Excellence for Cotton	Dr. S. B. Amarshettiwar, Officer In-charge ARS, Ekarjuna	Indo Count Pvt. Ltd. Mumbai & District Mineral Board, Chandrapur	307.92
4	Establishment of centre of excellence for enhancing crop productivity under climate resilience of Vidarbha region.	Dr.T.H.Rathod, Head, Agril. Botany	C.M. Fund Govt. of M.S.	1192.00
5	Strengthening of laboratory facilities for the production tissue culture seedling production of fruit crops of Vidarbha	Dr. D.R Rathod Biotechnology Centre, Department of Agricultural Botany,	C.M. Fund Govt. of M.S.	89.50
6	Santra Improvement project		C.M. Fund Govt of M.S.	
	Nagpur Centre	Dr Vinod Raut CoA, Nagpur		365.80
	Akola Centre	Dr. S.G. Bharad, Head Dept of Fruit Science, Akola		214.20
	Katol Centre	Dr Megha Dahale In-charge, RFRS Katol		214.20
		Total		**794.20**
7	Establishment of Incubation Centre for Youth Empowerment		C.M. Fund Govt of M.S.	

	Akola	Dr.U .A. Raut, Associate Professor Department of Fruit Science		208.00
	Nagpur	Dr Vinod Raut College of Agriculture, Nagpur		208.00
		Total		**416.00**
8	PDKV Research and Incubation Foundation a section - 8 companies) PDKV, Akola is the host institute of the company	Dr. S. R. Kalbande (P.I.) Prof.&Head, Deptt. of UCES &EE, Dr. PDKV, Akola	Maharashtra State Innovation Society, Govt. of MaharashtraMumbai	500.00
9	Crop Pest Surveillance & Advisory Project.	Dr D.B. Undirwade, Head, Dept. of Entomology	Dy. Director of Agriculture (Plant Protection) Pune	66.39
10	Research and area expansion of seed spices crops to increase the income of farmers in Akola district	Dr S.M. Ghawade Chilli and Vegetable Research Unit	DPDC, Akola	25.00
11	To promote and disseminate pure seed production and production technology of Bhiwapuri chilli	Dr S.M.Ghawade Chilli and Vegetable Research Unit	PD,ATMA, Nagpur	2.50
12	Small-scale research and extension program on seed spices crop Ajwain.	Dr S.M.Ghawade Chilli and Vegetable Research Unit	PD,ATMA, Akola	2.69
13	Centre for Natural Agriculture Research and Training	Chief Scientist, COART & Head, Dept. of Agronomy	Dr.Panjabrao Deshmukh Naisargik Sheti Mission, Govt. of Maharashtra	500.00
14	Establishment of Sericulture Unit at KVK, Wardha	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	5.25
15	Establishment of Mulberry plant nursery at KVK, Wardha	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	3.50
16	Pilot project on training on 'Cultivation of strawberry' and demonstration of strawberry cultivation in Wardha district	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	15.00
17	Construction of training hall at KVK, Selsura	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	60.49
18	Fencing of Farm & Construction of Well at KVK, Selsura	Dr J. R. Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	25.13
19	Training of farmers of Wardha district through Video Conferencing	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	1.20
20	Training on 'Production technology for Trichocard and Yellow sticky trap'	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	1.22

21	Strengthening of Bio-fertilizer Production Unit at KVK, Selsura	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	23.50
22	Demonstrations	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	9.50
23	Seed production through mechnization	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	46.48
24	Establishment of Fodder center at KVK, Selsura	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	40.00
25	Establishment of Traditional Seed Storage Bank	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	4.00
26	Bio fertilizer Production Unit	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	19.62
27	Use of Drone technology in Agriculture	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	20.10
28	Establishment of Trichocard Production Unit	Dr J. R.Katore, Senior Scientist andHead, KVK, Selsura	DPDC, Wardha	6.09
29	Farmers Educational Tour and Training Programme	Dr. A. S. Zape, Senior Scientist andHead, KVK, Buldhana	PD, ATMA, Buldana	2.16
30	Farmers Training Programmes under Dr. PDNSM 1st Phase	Dr. A. S. Zape, Senior Scientist andHead, KVK, Buldhana	PD ATMA, Buldana	5.00
31	Farmers Training Programmes under Dr. PDNSM 2nd Phase	Dr. A. S. Zape, Senior Scientist andHead, KVK, Buldhana	PD ATMA, Buldana	3.75
32	Farmers Training Programmes under PMFME	Dr. A. S. Zape, Senior Scientist andHead, KVK, Buldhana	State Dept. Agril.	3.88
			Total	**4225.07**

III. RKVY Funded *Ad-hoc* Research Project

Sr. No	Title of Research Projects	Name of Nodal officer / PI / Co-PI	Funding Agency	Project Cost (Rs. lakh)
1	Establishment of Breeder and Certified Seed Production Centre of Groundnut, Safflower and Sunflower at Dr. PDKV, Akola	Dr. S. J. Gahukar, SRS, Oilseed Res. Unit	RKVY	181.00
2	Establishment of Model Genome Club for Sustainable Agricultural Development	Dr. T. H. Rathod, Head, Dept. of Agril., Botany	RKVY	43.90
			Total	**224.90**

IV. RGSTC Funded *Ad-hoc* Research Projects

Sr. No.	Title of the Research Project	Nodal Officer / PI / Co-PI	Funding Agency	Project Cost (Rs. lakh)
1	Application of Precision Technology for Efficient Water and Nutrient use in Citrus (Nagpur Mandarin) in Vidarbha.	Dr. Ashok Mhaske Head, SWCE, Akola	RGSTC	70.56
2	Improvement of *Bacillus thuringiensis*-based bio-pesticides using melanin pigment forming isolates for UV tolerance and thereby its field efficacy	Dr. M.P. Moharil, Professor, Bio-Technology	RGSTC	46.39
3	A Value chain in nutri -cereals (millets)	Dr. S. P. Divekar Professor, Agril. Engg Section, COA, Akola	RGSTC	62.48
4	Exploration of Palas (*Butea monosperma*) flowers for production of herbal and ready to serve beverages a Value -added product (waste to wealth)	Dr. Sandesh Bangar Assistant Prof. VNCAB, Yavatmal	RGSTC	40.70
5	Biologically synthesized chitosan nanoparticles as potent bio-stimulant for 6increasing soybean productivity	Dr. P.R. Shingote Assistant Professor VNCAB, Yavatmal	RGSTC	62.38
			Total	**282.51**

5. EXTENSION EDUCATION

The Directorate of Extension Education have undertaken various extension education activities during the year 2024-25 in 11 districts of Vidarbha region with active co-operation from all constituent and affiliated institutions of the University.

The Directorate of Extension Education also sought co-operation of the Agriculture Department, Government of Maharashtra, ICAR institute, NHM, ATMA and other allied agencies for dissemination of front line technologies to the farming community.

Directorate of Extension Education undertakes mandatory functions through various extension hubs as follows.

- Training Unit
- Publication and Printing Unit
- Agricultural Technology Information Centre
- Dr. Panjabrao Deshmukh Smruti Kendra
- Krishi Vigyan Kendra's
- Extension Agronomists under Training & Visit System
- Transfer of Technology (TOT) programmes
- Mobile Agro-clinic advisory services
- Information Communication Technology Services

Extension Education Activities

A. University Extension Edcuation Programmes (2024-25)

Sr. No.	Programmes	Beneficiaries
1	Mahila Melawa (29 March 2024)	450
2	Pre Mansoon Melawa (21 May, 2024)	780
3	Workshop and Training	49,194
4	Krishi Din (1st July 2024)	383
5	Shivar Pheir (20 to 22 September , 2024)	1,00,000
6	AGROTECH-2024 (27 to 29 December, 2024)	9,00,000
7	Horticulture Day (14 to 15 February 2025)	20,000

B. Extension Edcuation Programmes (2024-25)

District	Extension Education Activities					
	Krishi Melawa	District Monthly workshop	Field Visit	Diagnostic Field Visit	Training	Doordarshan/AIR Programes
Akola	02	01	73	359	23	06
Buldhana	02	09	17	13	16	02
Washim	03	01	08	11	07	02
Amravati	03	04	27	34	56	43
Yavatmal	01	02	114	42	11	30
Wardha	04	03	14	17	13	18
Nagpur	09	01	07	26	45	02
Godia	02	01	45	10	16	02
Bhandara	02	01	62	30	94	15
Chandrapur	05	03	89	25	52	05
Gadchiroli	02	02	99	53	67	08
Total	**35**	**28**	**555**	**620**	**400**	**133**

C. Technologies, Services and Products delivered through ATIC during 2024-25

Sr. No.	Programmes	Beneficiaries
1	Hello Help Line (0724-2259262)	104
2	All India Toll Free Telephone service (18002330724)	2586
3	Paid Help Line (02067265826)	7311
4	Visit of Farmer Group (27 Group)	1213

D. Enquiries made at ATIC by the Farmers (2024-25)

Sr. No.	Type of On Line Queries	Number of Problems queries solved	% of queries
1	Seed of improved varieties/planting material	1216	16.63
2	Plant protection	1334	18.25
3	Farm implement	69	00.94
4	Agro-based enterprises	234	03.20
4	Biofertilizers	1806	24.70
6	Enquiry of extension activity	169	02.31
7	Enquiry about university publication	105	01.44
8	Green manuring composting, soil and water analysis	237	03.24
9	Enquiry about weather forecasting	143	01.96
10	Crop Husbundry	1912	26.15
11	Other	86	01.18
	Total	**7311**	**100.00**

E. Transfer of Agriculture Technologies Through IT Tools
(Joint Venture of Dr. PDKV, Akola and Reliance Foundation, Mumbai)

Modes of Information Dissemination

- Broadcast village covered : 3799
- Total Digital Farm School : 20
- Digital Farm School Beneficiary : 2334
- Voice SMS receivers : 3,15,398
- What's app users : 8884
- Soil Health Card distribution : 169
- Weather based agro advisories : 303
- Villages Under TOT : 150
- Weather based animal advisories : 101
- Cable scroll Information : 10000
- Video Modul : 02

F. Extension Education activities of Krishi Vigyan Kendra's (2024-25)

Details of FLDs, OFTs and Trainings Conducted by KVKs during 2024-25

Sr. No.	Name of KVK	FLDs	No of Beneficiaries	OFTs	No of Beneficiaries	Programme Trainings	No of Beneficiaries
1	Selsura (Wardha)	13	87	10	106	79	2335
2	Sonapur (Gadchiroli)	12	156	12	156	67	1000
3	Hiwara (Gondia)	08	108	10	130	67	3221
4	Buldhana	13	680	12	156	109	4831
5	Sakoli (Bhandara)	10	151	10	130	81	2320
6	Yavatmal	12	602	12	119	185	12656
7	Sindewahi (Chandrapur)	03	39	04	57	108	2902
	Total	**71**	**1823**	**70**	**854**	**696**	**29265**

G. Organization of Special Extension Programmes by Directorate of Extension Education

1. Two Projects submitted to RKVY

Directorate of Extension Education has submitted two projects to RKVY during the year 2023-24.

1. Effective Technology Outreach through DR. PDKV Model Village Programme (Rs. 345 lakhs)
2. Climate resilient technology for sustainable growth of farmers (Rs. 313 lakhs)

2. Farmer Scientist Forum

Total 33 farmer scientist forums have been formed at all centres of the University for Interaction between scientist and farmers. A total more than 2000 farmers are the members of this forum.

3. Model Village

With a view to developing model villages in Vidarbha, 11 villages have been selected in each district. The main objective of this initiative is to develop villages with the support of the Agriculture Department and other government departments, with the aim of improving the social and economic status of farmers. The program focuses on reducing farmers' cost of production, promoting mechanization, adopting integrated farming systems, and establishing a production-to-marketing value chain. Through these measures, university technologies are being disseminated to farmers. In this context, a Kharif crop competition was organized in the model villages, and two farmers were awarded prizes.

4. University Idol Farmer and Alumini Agri. Entrepreneur Idol

University has selected two idols (One innovative farmer and One alumini agricultural entrepreneur) with the interval of two months in a year and display board are erected at 27 various centres of the University for showing their excellent contribution in agriculture.

5. Sale Counter

University has started the sale counter at various centres for easy availability of the produce of university to the farming community. At this centre seeds, biofertilizer, insecticides, vermicompost, micronutrient, edible oil, processed products, implements, bakery products & publications etc. More than Rs 7.00 croer revenue generated from 23 sale counters.

H. Effective Linkages Developed (2024-25)

- Reliance Foundation, Mumbai
- Panni Foundation, Mumbai
- Dhanukh Agritech Ltd
- Rashtriya Krishi Vikas Yojna, GoM
- MAVIM, Akola
- ICAR, New Delhi
- State Department of Agriculture, Maharashtra and Madhya Pradesh
- NABARD
- Agriculture Technology Management Agency (ATMA)
- YASHADA, Pune
- Maitri Group, Pune

I. Details of PDSK Visit during 2024-25

Sr. No.	Month	Male	Female	Total
1	April 24	34	22	56
2	May 24	28	09	37
3	June 24	21	08	29
4	July 24	17	07	24
5	August 24	75	78	153
6	September 24	2465	1843	4308
7	October 24	78	49	127
8	November 24	165	66	231
9	December 24	96	62	158
10	January 25	32	18	50
11	February 25	22	14	36
	Total	**3033**	**2176**	**5209**

J. Eminent Visitors to the University (2024-25)

Sr. No.	Name of Guests	Date of Visit
1	Shri. Vinayak Sadanand Kashid, Executive Council Member, Dr. Balasaheb Sawant Konkan Agricultural University, Dapoli	06-06-2024
2	Dr. R. P. Kadam, Head of Department, Department of Extension Education, Dr. Vasantrao Naik Marathwada Agricultural University, Parbhani	08-06-2024
3	Dr. G. K. Sasane, Associate Dean, Mahatma Phule Agricultural University, Rahuri	08-06-2024
4	Hon. Aamir Khan, Cine Actor and Founder President Paani Foundation	21-06-2024
5	Hon. Amol Mitkari, MLA and Executive Council Member, Dr. PDKV, Akola	21-09-2024
6	Hon. Kiran Sarnaik, MLA and Executive Council Member, Dr. PDKV, Akola	21-09-2024
7	Hon. Vitthal Sarap, Executive Council Member, Dr. PDKV, Akola	21-09-2024
8	Mrs. Hemlata Andhare, Executive Council Member, Dr. PDKV, Akola	21-09-2024
9	Mr. Shankar Totawar, Divisional Director of Agriculture, Nagpur	21-09-2024
10	Dr. Nilesh Bunkar, Director, Pravara Institute of Research and Education in Natural and Social Sciences (PIRENS), Babhleswar	21-09-2024
11	Dr. Nilesh Dhannajay Save, Cultural Coordinator, University of Mumbai, Mumbai	25-09-2024
12	Dr. A. S. Dhawan, former Vice-Chancellor, VNMKV, Parbhani	08-10-2024
13	Dr. V. M. Mayande, former Vice-Chancellor, Dr. PDKV, Akola	08-10-2024
14	Dr. Vinod Patil, Registrar, Poet Bahinabai Chaudhary North Maharashtra University, Jalgaon	10-10-2024
15	Dr. Sunil Patil, Student Welfare Officer, University of Mumbai, Mumbai	21-10-2024
16	Dr. Dayaram Pawar, Student Welfare Officer, Poet Bahinabai Chaudhary North Maharashtra University, Jalgaon	21-10-2024
17	Dr. Raju Hivse, Student Welfare Officer, Rashtrasant Tukadoji Maharaj University,Nagpur	21-10-2024
18	Dr. Jaywant Chaudhary, Student Welfare Officer, Kavikulguru Kalidas Sanskrit University, Ramtek	21-10-2024
19	Dr. Manish Das, Director and Project Coordinator, Directorate of Medicinal and Aromatic Plants Research, Anand, Gujarat	25-12-2024
20	Hon. Shri. Manikrao Kokate, Minister of Agriculture, State of Maharashtra	27-12-2024

21	Shri. Raosaheb Bhagde, Commissioner of Agriculture, Maharashtra	27-12-2024
22	Mr. Tushar Pawar, Vice President, MCAER, Pune	27-12-2024
23	Mr. Randhir Savarkar, Hon. MLA & Executive Council Member, Dr.PDKV,Akola	27-12-2024
24	Mrs. Hemlata Andhare, Executive Council Member, Dr. PDKV, Akola	27-12-2024
25	Mr. Moreshwar Wankhade, Executive Council Member, Dr. PDKV, Akola	27-12-2024
26	Mrs. Sangita Adhau, President, Zilla Parishad, Akola	27-12-2024
27	Dr. Nitin Patil, Vice Chancellor, Maharashtra University of Animal and Fisheries Sciences, Nagpur	27-12-2024

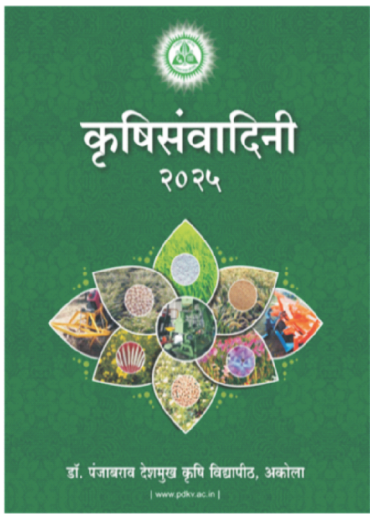
K. Detail information regarding extension education activities conducted at different centre of university (2024-25) O- Organized P-Participation B- Beneficiary

Department	Krishi Melawa			Exhibition			Worrkshop			Seminar		Training	
	O	P	B	O	P	B	O	P	B	O	P	O	P
KVK Buldhana	05	01	2720	02	01	2680	01	04	507	00	00	109	17
KVK Yavatmal	02	01	447	00	02	648	02	05	350	00	00	66	39
KVK Wardha	03	01	2228	01	06	15000	02	05	883	00	00	53	21
KVK Sakoli	02	01	1340	02	04	2268	01	08	132	01	01	81	2330
KVK Gondia	02	00	182	00	005	51326	00	02	275	00	00	32	00
KVKSindhewahi	05	04	1590	01	02	7850	02	07	342	02	03	52	13
KVK Gadchiroli	02	00	350	02	02	1000	00	02	324	17	10	67	34
Anand Niketan College of Agri, Warora	00	05	446	00	05	800	01	04	100	00	03	13	16
SRS Wheat Dr. PDKV, Akola	00	01	00	00	01	00	00	01	00	00	02	00	00
Department of Fruit Science Dr. PDKV Akola	01	05	1000	00	05	1300	00	03	00	00	08	00	00
Department of Agri Economics and Stat Dr. PDKV Akola	00	04	00	00	06	00	00	00	00	00	00	00	00
Vasantrao Naik Biotechnolgy College, Yavatmal	00	00	00	00	02	00	00	02	400	00	00	04	02
Chief Scientist AICRP on Dry Land, Akola	00	00	00	00	02	00	00	02	00	00	06	03	38
Total	**22**	**33**	**10303**	**08**	**43**	**83171**	**09**	**45**	**3313**	**20**	**33**	**480**	**2510**

Department	Field Visit			Diagnostic Visit			Field Day		District Monthly Workshop	FLD		Demonstration	
	O	P	B	P	P	B	O	P	P	O	B	O	B
KVK Buldhana	47	19	587	10	42	463	07	286	10	13	680	16	679
KVK Yavatmal	28	00	95	05	00	64	03	159	05	12	602	12	119
KVK Wardha	19	11	218	01	37	233	04	168	01	10	715	09	274

KVK Sakoli	62	22	1260	03	65	1045	02	53	03	10	130	03	250
KVK Gondia	40	00	292	00	10	320	00	00	00	09	134	02	14
KVK Sindhewahi	45	54	495	10	24	39	07	900	10	05	650	10	80
KVK Gadchiroli	99	54	407	00	53	214	02	430	00	12	156	400	400
Anand Niketan College of Agri, Warora	02	09	167	01	02	03	00	00	01	00	00	06	70
SRS Wheat Dr. PDKV, Akola	00	02	00	00	00	00	00	00	00	00	00	00	00
Department of Fruit Science Dr. PDKV Akola	00	20	300	00	02	75	00	00	00	00	00	00	00
Department of Agri Economics and Stat Dr. PDKV Akola	00	03	00	00	00	00	00	00	00	00	00	00	00
Vasantrao Naik Biotechnolgy College Yavatmal	00	45	200	09	04	50	00	00	09	00	07	00	00
Chief Scientist AICRP on Dry Land Akola	38	00	00	00	00	12	00	00	00	00	00	00	00
Total	**380**	**239**	**4021**	**39**	**239**	**2518**	**25**	**1996**	**39**	**71**	**3074**	**458**	**1886**

L. Unitveristy Publication (2024-25)



M. Publications brought out by the University during 2024-25

Sr. No	Name of Publication	Funding agency	Details
1	Krishi Sanvadini -2025 (Yearly)	Revolving fund	33,000 copies
2	Officer Diary 2025 (Yearly)	Revolving fund	500 copies
3	Krishi Dindarshika	Revolving fund	3000 copies
4	Krishi Patrika (Monthly Magazine)	Revolving fund	12 issues/year
5	Booklets (Edited)	Concern Departments	28
6	Folders (Edited)	Concern Departments	75
7	News in News Paper	News published in newspapers	6010
8	Popular articles	Number of appeared in News paper	558

N. Training organized by Directorate of Extension Education (2024-25)

Sr No	Name of Trainging Programme	Date	Trainees
1	Capacity building of Extension Worker	07 to 09 August 2024	34
2	Advanced Training Methods and Mass Media Techniques for Effective Technology Transfer	12 to 14 August 2024	32
3	Organic Farming	13 to 15 June 2024	40
4	Cotton cultivation technology	27 November 2024	60
5	Organic Farming Field Unit	06 November 2024	40
6	Turmeric Cultivation technology	15 December 2024	50
7	Tissue culture and Post Harvest Technology	7 january 2025	30
	Total (07 Trining)		286

O. Technology transfer through mass media :

1.	Kisanwani Akola	:	125
2.	Prasaarbharti Nagpur	:	130
3.	Doordarshan Nagpur/Mumbai	:	127

P. Proposed Extension activities during 2025-26

Sr No	Date	Proposed activities
1	April, 2025	• Dr. Panjabrao alias Bhausaheb Deshmukh Death Anneversary
2	May, 2025	• Pre Mansoon Krishi Melawa
3	June, 2025	• Scientific Advisory Committee Meeting (KVK)
4	July, 2025	• Krishi Din
5	August, 2025	• Training
6	September, 2025	• Training • Shivar Pheri
7	October, 2025	• Shivar Pheri
8	November, 2025	• Scientific Advisory Committee Meeting (KVK)
9	December, 2025	• Agricultural Exhibition (AGROTECH)
10	January, 2026	• Training
11	February, 2026	• Extension Education Council Meeting • Training Programmes sponsored by different Institute • KVK Action Plan Meeting
12	March, 2026	• Women Empowerment Mela

6. INFORMATION FACILITIES

Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola is the only agricultural university in Vidarbha region that serves the need for agricultural education, research, extension education, and consultancy in the relevant areas. The Central Library of the University plays a vital role in meeting the information needs of the in-house users as well as outside users from various parts of the country. The university library has excellent print and electronic-based information resources in the field of agriculture and allied sciences to support the university's teaching, learning, research, and extension activities. It caters to the information needs in conventional and non-conventional formats of students, faculty members, researchers, scientists, trainees, etc. not only of the university and its constituent colleges but also users from different universities, institutions, and SAUs.

The library information system of the university is automated, and digitized, the student's membership cards and books are barcoded. The full text of the Ph. D. Thesis is made available online in digital format and can be accessed from the website http://krishikosh.egranth.ac.in throughout the globe.

During the year under report, the library has provided the following services to the users.

1) Reprography service
2) Lending Services
3) Reference/Information Services
4) Literature Search services
5) Newspaper clipping service.
6) Computerized services:
    a. Consortium for e-resources in agriculture (CeRA) (http://www.jgateplus.com) more than 4,687 journals.
    b. KrishiKosh Repository
    c. ONOS Journals
    d. Bibliographical database Search Service
    e. Online Public Access Catalogue (OPAC)
    f. CD-ROM Database Search Service
    g. Internet Search Facility
    h. Current Awareness Service (new arrivals)
    i. Document Delivery Service

The following computerized activities were undertaken during the period under report.

j. All resources added to the library have been barcoded and updated in the library bibliographical database using 'KOHA SOFTWARE'
k. Library users were given hands-on training and online demonstrations whenever necessary for searching online resources that are made available by the University Library
l. All PG & Ph. D. students of the first-semester programme of the university were given lectures and introduced to the online library information services provided by University Library.
m. The library has obtained membership in a consortium for e-resources in agriculture (CeRA) (https://jgateplus.com/search).
n. Library has become a stakeholder in the KrishiKosh Repository database and participating in both projects.

Special Efforts taken during the period under report:

The University library has developed its own dedicated website http://pdkvopac.ourlib.in. From this website, access has been provided to CERA consortia, from which students can access 4,687 full-text/abstract journals as well as AGRISTAT, a statistical database, and KrishiKosh digital repository. The University library has also provided access to 30-35000 online open-access e-journals of all subjects from this site. Access to 07 National & International level Repositories of theses is also provided. The link to these Online Theses Repositories is provided from the University Library Portal on the University website. Through these Repositories Users have access to more than 64,80,055 full-

text/abstract theses of all subjects of knowledge. Also, provided a dedicated search engine to search literature from trustworthy, relevant, and popular information sources.

In KrishiKosh's digital repository, the university library has uploaded 4,041. The process of uploading theses to the KrishiKosh digital repository is in progress.

Holdings position

Position as on 31/03/2024		Books added during the year 2024-25		Total as on 31/03/2025
Books	1,22,893	Books	27	1,22,920
Theses	11,141	Theses	255	11,396
Back Vols.	29,183	Back Vols.	Nil	29,183
Total	1,63,217		282	1,63,499
E-Books	2,061	E-Books	Nil	2,215
Total	**1,65,278**		**282**	**1,65,560**

Special collection

University Library has maintained a special FAO Repository collection of 225 E-Books received from the Food and Agriculture Organization of the United Nations, Rome, Italy in print as well as online. This University Library is recognized as the 15th FAO Depository Libraries in Asia. It has been recognized as a Depository Library by FAO since 1987.

For providing CD-ROM database search services university Library possesses the following CD-ROM Databases

Sr. no	Name	Period	Sr. no	Name	Period
01	CAB CD	1973+1984+ 1990+	12	AGRICOLA	1970+ 1984+
02	AgECON CD	1973+	13	AGRIS	1975+1991+
03	BEASTCD	1973+	14	Biological Abstracts	Current
04	CABPESTCD	1973+	15	Biotechnology Abstracts	1982+
05	CROPCD	1973+	16	Food Science & Tech Abstracts	1990+
06	E-CD	1973+	17	Water Resources Abstracts	Current
07	HORTCD	1973+	18	Zoological Records	Current
08	PARASITECD	1973+	19	Aquatic & Fisheries Sc Abstracts	1978+
09	Plant Gene CD	1973+	20	Aquatic & Fisheries Sc. Abstracts	1988+
10	SOILCD	1973+	21	Food & Human Nutrition	1975+
11	VETCD	1973+	22	TREECD	1939+

Membership

The University Library provides Membership to members of different authorities of the university, teaching staff of the university, students of different undergraduate and post-graduate departments, research scholars, officers and employees of the university, teaching staff, and students of constituent colleges of the university. At the same time, Casual Membership is also provided to users from non-affiliated colleges and other universities without charging any type of fees.

The University Library has provided membership to 1637 users during the year 2024-25. The details of category-wise membership is as follows.

Sr. No.	Category	Total No.
1	U. G. Students	755
2	P. G. Students	702
3	Ph.D. Students	170
4	Staff	10
	Total	**1637**

Statistics related to the library for the year 2024-25.

Sr. No.	Items	No.
1	No. of E-Books Added.	Nil
2	Number of print books added.	27
3	Number of Journals subscribed/Gratis OR Exchange (44 Print + 4687 + ONOS Online Journals).	4731
4	Number of Membership provided.	1637
5	Number of Publications issued for home reading.	2362
6	Number of Publications issued for Reference in Reading Room.	225
7	Number of users visited in library.	7548
8	The number of users who used the Reading Room facility.	4070
9	The number of users who used Theses section facility.	Nil
10	Number of users used Computer Section	Nil

Agricultural Research Information System Cell

The main objective of Agricultural Research Information System Cell is to provide Internet, Email and Information Communication Technology facilities to the office in main campus i.e. Administrative Office, Post Graduate Institute and all the Post Graduate Departments, University Library, College of Agril. Engineering & Technology, College of Agriculture, College of Horticulture & Forestry and also to the Students hostels like Undergraduate, Postgraduate and Ph.D. Hostels etc. Also to look after the day to day maintenance of these facility and connectivity issues.

ARIS Cell is also associated with the teaching of Computer Courses offered in Undergraduate, Postgraduate and Ph.D. Degree programmes. To help the Scientists, Officers and Employees to make use of various Computers Programs and Online Software's for office work, likes Integrated University Management System (IUMS), Online admissions, Online Recruitment Process, Evaluation of OMR Answer Sheets, Sevarth System, Online Education System etc. Hardware/Software Maintenance of University Servers, Website, Email and IUMS Data Servers etc. Also provided all technical support and helped in organization of Online Workshops, Seminars and University Convocation in Hybrid Mode etc.

Training of Computer related subjects:

This Centre has conducted the teaching of various newly introduced Computer Courses during 2024-25 offered in Undergraduate, Post Graduate and Doctorate Degree Programmes as per the new education policy.

University Website:

Information of all the University Departments and Agricultural Colleges has been uploaded and regularly updated on University website: www.pdkv.ac.in. University research recommendations, crop varieties, daily weather report, recruitment advertisements of University and under Research Projects, University circulars, news, messages to farmers, expected and predicated prices in markets, various training programmes organized and tender and quotation notices are also been uploaded on the website. Information about all programmes organized during 2024-25 in the University like Training workshops, Seminars, Farmers dialogs, Agricultural Exhibitions and farmers meets, Crop protection messages, YouTube live streaming of University Convocation programme, news and photographs of programmes has been uploaded and published on the website time to time.

Administration and maintenance of Servers:

This centre is established with latest E-mail, website and IUMS (Integrated University Management System) system Servers for which regular hardware/ software maintenance and up-gradation is done as per the requirement. Through these servers webmail, internet and IUMS facilities are provided 24x7 to the University Offices.

Maintenance of Computer equipments in the University:

This centre is also responsible for guidance regarding maintenance / repairs of all computers, printers, WiFi access points established in the University main campus and also provided help and guidance in expansion of Local Area Network as per requirement. This cell is also having a maintenance cell through which establishment of new computer

softwares and hardware, maintenance of viruses, local area network connectivity, guidance and help regarding purchases and maintenance problems is provided.

Important activities during the Year 2024-25:

- New Online Centralized Biometric Attendance System at University Headquarter, Colleges, Research Stations, Krishi Vigyan Kendra's and Agricultural Technical Schools has been established and all are connected to ARIS Cell.
- During 2024-25, ARIS Cell has prepared the Online Portal for managing the Registration to issuing of Certificate for organization of State Level "Indradhanushya" cultural events successfully.
- Upgradation of security of firewall for Internet and Data Center Servers is carried out.
- This Centre has also made alternative arrangements to provide the 24x7 uninterrupted internet facility to the University.
- Information received from various Departments has been updated on University Website.
- Information regarding recruitment, various auctions, purchases, University circulars, achievements news has been published on website time to time.
- Up-dation and Up-gradation has been done in the IUMS Software for accepting the online applications for various recruitments process of the University.
- Web based application for online admission to final examination related work of Lower Agriculture Education including all Agriculture Technical Schools has been done during 2024-25.
- Smart and Virtual Class Room has been established at Post Graduate Institute, Dr. PDKV, Akola.
- Every year, digitization of all the educational documents, degree certificates and marksheets etc. issued by the University to students and are need to be uploaded on the portal(National Academic Depository) started by the Human Resource Development, Department of Government of India and also on Digi-locker app are made available online.
- Technical guidance and necessary help has been provided to various department for the development of mobile apps in order to immediate dissemination of University technologies. All these apps are made available on Play Store and University website.

7. STUDENT WELFARE OFFICE

Student Welfare Office has to carry out the following activities for the welfare of the students.

1. To encourage the students for participation in various sports, games and other post-curricular programs among students at university level.
2. Inter-college indoor and outdoor games within the jurisdiction of the University and to create sportsmanship and health promotion among students by holding sports competitions. In the academic session of the year 2024-25 organized following Inter-Collegiate Sports tournaments.

Inter-Collegiate tournaments organized as per below

Sr.	Event	Organizing College	Date
1	Judo (M/W)	Shri. Shivaji College of Bio-Tech, Amravati.	19th June 2024
2	Wrestling (Men)	Sau. V. D. College of Food, Amravati	
3	Swimming (M/W)	Shri. Shivaji College of Horticulture, Amravati	21st June 2024
4	Fencing (M/W)	College of Agriculture, Nagpur	25th June 2024
5	Karate (M/W)	Sau. V.D. College of Agriculture, Bodna, Amravati	28th June 2024
6	Taekwondo (M/W)		
7	Boxing (Men)	Sumitrabai Andhare, College of Agril. Shirla	1st July 2024
8	Table Tennis (M/W)	P.R. Pote Patil, College of Agriculture Amravati	3rd to 4th July 2024
9	Chess (M/W)	College of Agriculture, Akola	8th to 11th July 2024
10	Badminton (M/W)	Post Graduate Institute, Akola	
11	Handball (Men)	College of Agriculture Nagpur	13th July 2024
12	Archery (M/W)	Dr. Rajendra Gode Agriculture College, Buldhana	18th July 2024
13	Basketball (M/W)	College of Horticulture , Akola	3rd to 5th Sept. 2024
14	Football (Men)	College of Forestry, Akola	
15	Athletics (M/W)	Student Welfare Office, Dr. PDKV, Akola	13th Sept. 2024
16	Volleyball (M/W)	Shri. Sant Shankar Maharaj Agriculture College, Pimpalkuta	19th to 21st Sept. 2024
17	Kho-Kho (M)	Swami Vivekananda College of Agriculture, Hiwara Ashram	23rd to 25th Sept. 2024
	Kho-Kho (W)	Swami Vivekananda Agro Business Management Hiwara Ashram	
18	Kabaddi (Men)	R. B.A. C., Pipri Wardha	28th to 30 Sept. 2024
19	Youth Festival (M/W)	College of Agriculture, Akola	4th to 6th Oct. 2024
20	Avishkar (M/W)	Post Graduate Institute, Akola	
21	Cricket (Men)		Zonal
	Akola (A)	College of Agri. Engg& Tech, Akola	24th to 26thNov. 2024
	Buldhana (B)	Samarth Agriculture College Deulgaon Raja	Final
	Amravati (C)	Shri. Shivaji College of Agril, Amravati	28th to 30 Nov. 2024
	Nagpur (D)	College of Agriculture, Nagpur	
	Final	Student Welfare Office, Akola	
22	Staff Sports Meet	Student Welfare Office, Akola	22nd to 24th Jan. 2025

Sport camp :

1. Student Welfare office, Dr. PDKV, Akola has conducted five days practice and training camp of University Football (M) team at Football ground of Dr. Panajbrao Deshmukh Krishi Vidyapeeth, Akola during 14th to 18th December 2024.

Participated in State level tournament :

Sr.	Name of event and No. of participated students	Name of organizing University	Date
1	Krida Mahotsav State level tournament (Total 94 Student's participated)	Gondwana University Gadchiroli	18th to 22nd February 2025

Participated in National level tournament :-

Sr.	Name of event and No. of participated students	Name of organizing University	Date
1	Fencing (M & W) (10 Boys and 08 Girls Participated)	University of Jammu, Jammu	6th to 10th November 2024.
2	Football (M)(15 Boys Participated)	Parul University Vadodara, Gujrat	20th to 23rd December 2024
3	Archery (Men) (2 Boys Participated)	Kalinga Institute of Industrial Technology, Deemed University, Bhubaneswar, Odisha.	24th to 27th December 2024
4	Cricket (Men) (12 Boys Participated)	Jai Minesh Adivasi University, Kota, Rajasthan from	9th to 15th January 2025
5	Boxing (Men) (2 Boys Participated)	Gurukashi University, Bathinda (Panjab)	26th December 2024 to 2nd January 2025
6	Wrestling (Men)(2 Boys Participated)	Gurukashi University, Bathinda (Panjab)	5th to 8th January 2025
7	Wrestling (Women)(1 Girl Participated)	Gurukashi University, Bathinda (Panjab)	13th to 16th January 2025
8	Archery selection trials for International tournaments (1 Student Participated)	Kalinga Institute of Industrial Technology, Deemed University, Bhubaneswar, Odisha from	25th to 27th March 2025
9	XXII All India Inter-Agriculture Universities sports & Games Meet (Total 26 students Participated) Dhananjay Khade student of Sumitrabai Andhare Agriculture College, Shirla won Silver medal in 400 m run.	Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya from	2nd to 5th May 2025

Placement cell Activities:

Conducting interviews with seven various industrial companies / banks to provide employment opportunities to the University students.

Sr. No.	Company Name	Date of Interview	Total number of students participated	Selected by company
1	Axis Bank through Times Pro Privet Ltd	18/04/2024	209	03
2	Nirman Fertilizer Privet Ltd company	3/05/2024	5	——-
3	Gharda Chemical company	11/06/2024	15	06
4	Basant Agro Tech. company	14/06/2024	122	2

5	Venky Privet Ltd company	20/06/2024	14	2
6	Shriram Bioseed Genetics company	6/07/2024	175	13
7	Axis bank young bankers	3/08/2024	20	6
8	Axis bank young bankers	15/10/2024	15	8
9	BAIF livelihoods	4/04/2025	14	04

Extension Activities:

1. Mega Health Checkup Camp organized by Student Welfare Office, Dr. PDKV, Akola and on 7th & 8th June 2024. In this Camp total 264 students and staff were participated.

NSS Activates

1. One Day training Programme for NSS Program Office on My Bharat Portal to be organized by 19th July 2024 at VNIT Nagpur. Three Programme Officers have attended the training
2) NSS Program Officer for One day Training on MY Bharat Portal on 31st August 2024 at G H Raisoni College of Engineering, Nagpur. Three Programme Officer attend the training
3) National Republic Day Parade SRD Selection Test Camp was organized on 26th to 28th September, 2024 at Swami Ramanand Tirth Vidyapeeth, Nanded. Two Volunteer (1 Male & 1 Female) Dr.P.D.K.V. Akola.
4) NSS Program Officer participated in One day programme of Work Water Conservation with Youth Participation and Initiative (YEWS) on 12th December 2024 at Savitribai Phule Pune University, Pune

National Camp (NIC)

5) NIC Camp was organized at Chaudhary Charan Singh Haryana Agricultural University, Hisar, from 23rd to 29th September 2024. Volunteers from our university actively participated in this camp.A total of 20students participated in the Slogan Competition.
6) In this competition, Ms. Colony Khadi secured the First Prize for her excellent slogan on the theme "Youth for Sustainable Development".Avhan Maharashtra State Inter-University Disaster Preparedness Training Programme Sant Gadge Baba Amravati University, from 07th to 16th November 2024.(10 Volunteer Male, 10 Volunteer Female) & 1 Programme Officer Attend Avhan 2024.
7) Mega Health Checkup Camp organized by Student Welfare Office, Dr. PDKV, Akola and on 7th & 8th June 2024. In this Camp University students and staff were participated.
8) P.C. Alexander Inter- University Elocution Competition 2024 organized by 15th October 2024.at Mumbai.
9) 20th State Level Inter Indradhanushya 2024-25 which was held at Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola, from 7th to 11th November 2024.
10) Full Body Health Chek-up organized by Student Welfare Office, Dr. PDKV, Akola on 12nd & 13th December 2024 in University Clinic.
11) Pradhan Mantri TB Mukt Bharat Abhiyaan 10 kit were distributed to the T.B patients.
12) One day Work shop Water Conservation with Youth Participation and Initiative (YEWS) on 12th December 2024 at Savitribai Phule Pune University, Pune.
13) National Integration Camp was held at Ch. Charansing Haryana Agricultural University, Hisar from 23rd to 29th October 2024.
14) The SBI Smart and Technology Security Workshop was successfully held on 3rd to 9th January 2025 with the active participation of students from all Colleges under Dr. P.D.K.V. Akola.
15) The Cyber Security Workshop was successfully conducted from 6th to 14th January 2025, with active participation from students of all colleges under Dr. P.D.K.V. Akola.
16) The Research Festival "Avishkar" was organized at Dr. Babasaheb Ambedkar Technological University from 12th to 15th January, 2025. Students of 22 University were actively participated in this event. Ku, Shruti Ratnaparkhi Won Second Prize in the Agriculture category.
17) Ku. Praktiksha Ramrao Shinde participated in Kamalnayan Bajaj National Elocution competition organized by Wardha Bajaj Education Trist from 22nd to 23rd January 2025.
18) Ku. Pooja Jaybhaye participated in National environment Youth Parliament organized by Jaipur (Rajasthan) from 24th to 25th January 2025.

19) Shri Vivek Pramod Pinjarkar, volunteer from Viveananda Agricultural College, Hiwara Ashram, was selected for the State-Level Republic Day Parade 2025 and participated in the parade training and events conducted at Kalina, Mumbai, from 17th to 26th January 2025.

20) Students Welfare Office organized Zumba exercise camp for University girls from 7th to 13th January 2025, at Ahilya Girls' Hostel, Dr. P.D.K.V. Akola. All girls students of the University girls hostel were actively participated in this event.

21) The Utkarsh Social and Cultural State-Level Festival was organized at Savitribai Phule Pune University, Pune, from 23rd to 25th February , 2025. A total of nine volunteers from P.R. Pote Agricultural College, along with one program officer from Samarth Agricultural College, Deulgaon Raja, participated in this camp. In the Shobha Yatra (Procession) category, Dr. Panjabrao Deshmukh Krishi Vidyapeeth secured third place in the Utkarsh Festival.

22) Two University students were participated All India Shri Nandlal Gadia Memorial Debate 2025 organized by Mewar University, Rajasthan from 28th Feb to 1st March 2025

23) State-level Prerna State level leadership skill development camp was held at Savitribai Phule Pune University Pune, from 17th to 21st March, 2025.

24) The Students Welfare Office Participated Pradhan Mantri TB Mukt Bharat Abhiyaan.

25) Blind Women's Gathering was organized by The National Federation of the Blind. Maharashtra on the occasion of celebration of International Women's Day, on dated 15th to 16th March 2025 in the Akola. Around 200 blind women from the five districts of the Amravati region were participated in this event. The NSS volunteers of Dr. P.D.K.V. Akola assisted the blind women during the program.

26) Free blood checkup camp was jointly organized by the National Service Scheme (NSS), National Cadet Corps (NCC), Student Welfare Officer's Office, Lok Kalyan Diagnostic, and Bharat on 15th March 2025. A total 264 public were participants, (including staff, students of University)

8. FARM MANAGEMENT

FARM MANAGEMENT

1. Profile of the Farm:

On establishment of University in the year of 1969 and subsequent acquisition of land, the functioning of Central Research Station (CRS) was initiated from the year 1971. The main objective of establishment of Central Research Station was seed production of various stages viz, Nucleus, Breeder, Foundation, Certified, Truthful and organization of demonstration of crop production technologies and to provide the facilities to various research units, University departments.

The initial period was earmarked for developmental activities comprising the leveling of land, demarcation of area based on soil type, creation of infrastructural facilities like road, shed for cattle, block offices followed by the irrigation facilities like creation of water storage tank, lift irrigation. Besides, a workshop for repairs of tractors, implements and Agricultural Machineries and central store for storage of farm produce and seeds were build up.

2. Total Area:

In order to facilitate the better services to different schemes/departments as well as for convenient and smooth functioning of various farm activities, the farm has been divided into nine different blocks viz Mission School, Malkapur, Shivar, Western, Gudadhi, Shivani, Babhulgaon, Highway and Washim Road Farm. The suitable land with irrigation facilities are being spared for research scheme/departments for their research work and remaining one is being used by Central Research Station for seed production, demonstration of technology/varieties and plantation of fruit crops.

The total area of CRS is 1216.35, the area under actual cultivation is 525.76 ha. During 2024-25, seed production programme on an area of 414.00 ha, 197.20 ha and 2.30 ha was implemented in Kharif, Rabi and Summer seasons, respectively. A total of 5316.29 q seed production of different stages viz; breeder, Certified, truthful and commercial, is expected from Kharif, Rabi and Summer seasons. Utilization of available land at CRS during 2024-25 is given below.

3. Block wise area and utilization of available land at CRS during 2024-25

a) Block wise area of CRS

SN	Name of Block	Total Area (ha)
1	Mission School	76.81
2	Malkapur	158.73
3	Western	118.90
4	Shivar	160.66
5	Gudadhi	165.76
6	Shivani	128.64
7	Babhulgaon	119.61
8	Highway	159.13
9	Washim Road Farm	112.42
	Total	**1200.66**
	Total (As per 7/12 record)	**1216.35**

*The block wise land area needs to be revised as per 7/12 record.

b) Land utilization of CRS during 2024-25

SN	Particulars	Area (ha)
1	Total area (as per 7/12 record)	1216.35
2	Area under Roads, Bunds, Buildings etc.	217.35
3	Area allotted to Schemes/Departments	201.27

		55th Annual Report 2023-24
4	Area under Social Forestry (old), Grazing etc.	93.54
5	Area under Fruit Plantations	69.30
6	Area handed over to other than Univ. Dept.	96.27
7	Non Cultivable as per 7/12 record (Potkharab)	12.86
8	Net area under Cultivation	525.76
9	Area Under Kharif Seed Production	414.00
10	Area Under Rabi Seed Production	197.20
11	Area Under Summer Seed Production	2.30

c) Land acquired by Government and allotted to other departments (up to 2024-25)

SN	Particulars	Acquired Area (ha)
1	Akola Jawahar Navoday Vidyalaya	4.84
2	Smashan Bhumi Shivar Village	0.40
3	Smashan Bhumi Malkapur Shivani khadan	0.40
4	Smashan Bhumi Shivani Village	0.40
5	Aerodrome (Airport Authority of India)	60.68
6	MSEB (Maharashtra state Electricity Board)	0.60
7	National Highway No. 6 and 161 (NHAI)	1.95
8	Maharashtra Animal and Fishery Sciences University (MAFSU)	27.00
	Total land acquired (ha)	**96.27**

4. Area under Irrigation

a)	Area under pressurized drip irrigation system at Babhulgaon block (Presently non-functioning since 2007-08)	80 ha
b)	Area under Tank irrigation (Lift irrigation from Morna) (Not working since 2013-14)	Nil

Note :

- The area where Tank No. 1 (Sharad Sarovar) is situated was taken over by Aerodrome Authority in 2015-16, hence the irrigation from river Morna is not possible, forever as at Kaulkhed Pump House Lift System is abandoned permanently by Project Engineer, (LFD) and stopped dismantled during 2023-24 as per approval of authorities and pumps are shifted to CDF Wani-Rambhapur by Project Engineer, Large Farm Development.
- To operate the pressurized drip irrigation system about six ft. water level always required to be maintained in Tank No.3. The water level is always less than required & hence drip irrigation system cannot work.
- The drip irrigation system requires major repairs as it is not in working since last fourteen years and now cannot be used as per survey of Dean, College of Agri. Engg. and Head, Deptt. of Irrigation and Drainage, Dr. PDKV, Akola & his team.
- Tank No. 2 – Proposal for lifting of water from Sewage Water Plant of Municipal Corporation of Akola to Tank No.2 is prepared under Director of Research, Dr. PDKV, Akola by Head, Department of Irrigation and Drainage. Survey by team of University Engineer & Maharashtra Jeevan Pradhikaran team is done. After final survey by Maharashtra Jeevan Pradhikaran, plan, estimate etc. was prepared and submitted to University Engineer. The Sewage Water Plant of Municipal Corporation of Akola started in March 2022, but work of pipeline is not done yet. After pipeline work only water will be available in Tank No. 2 for irrigation which is expected now in the year 2025-26.

Distribution of protective irrigation given during 2024-25 (Area in ha.)

Season/Source	Well	Bore	Pond	Total
Kharif	7.00	4.00	18.00	29.00
Rabi Crop	23.00	53.00	129.00	205.00
Summer Crop	3.70	—	—	3.70
Fruit Crop	41.37	18.10	4.00	63.47
Total	**75.07**	**75.10**	**151.00**	**301.17**

5. Infrastructure Facilities at CRS

- One workshop - 01
- Pressurized drip irrigation system - 80 ha (Non-functioning since 2007-08)
- Lift irrigation system - 02
- Storage tanks - 02
- Wells - 15 (Seasonal)
- Farm Ponds - 15
- Tractors - 12 (11 under repair)
- Trailers - 09 (7 under repair)
- Water Tankers - 03 (2 non-working)
- JCB machine - 01 (15 years of service completed)
- Pneumatic planter - 02 (1 under repair)
- Boom Sprayer - 02 (under repair)
- Slasher - 01
- Soybean seed drill - 02
- BBF Marker - 04
- Combine Harvester - 02 (Not working)
- Fertilizer spreader - 01
- Processing plant at central store - 01
- Godowns for seed storage - 07
- Ambient seed storage - 01
- TATA truck - 01 (Un-serviceable)
- Mini Trucks (Pick Up Van) - 02 (1 under repair)

Major Achievements:

A. Works done during 2024-25

SN	Particulars of Work	Work executed
1.	New Mango Plantation at Malkapur Block	11 ha
2.	Erection of Fix knot fence at Malkapur Block for New Mango Plantation	1770 m
3.	Installation of Drip irrigation system at Malkapur Block for New Mango Plantation	11 ha
4.	Compound Wall construction work at Gudadhi and Western Block border by University Engineer from the funds of land acquired for four lane expansion of NH-6 by NHAI & expansion of runway by Airport Authority of India	1100 m
5.	Irrigation pipeline network from Malkapur Block to CRS office	1560 m
6.	Desilting of existing Well at Western and Gudadhi Block	03 Nos.
7.	Horizontal bore taken in existing Well at Western Block	07 Nos.

8.	Surface bore taken at Western, Washim Road Farm, Shivar and Gudadhi Block	07 Nos.
9.	Renovation of old cattle shed into seed storage shed at Gudadhi, Shivani and Babhulgaon Block	04 Nos.
10.	Chain-link fencing along the higway at Washim Road Farm and Main gate (By University Engineer)	940 m
11.	Cleaning of old orchards and Field	17 ha
12.	Float prepared for motor pump in farm ponds	03

B. Work in progress during 2024-25

SN	Particulars	Details	Remarks
1.	Erection of Fix knot fence at Malkapur Block	723 m	Plot No. 43 near Ph.D. hostel
2.	Pipe line network at Gudadhi Block	700 m	Plot No. S/8 & S/9 (target area 30 ha)
3.	Nursery development at Western Block	02 ha	From the existing orchards
4.	New Sweet Orange plantation	02 ha	Western Block
5.	Gap filing in Chiku and Mango Plantation	10 ha	Highway Block
6.	Pipeline work from new bore wells	05	WRF, Western and Shivar Block

Central Demonstration Farm, Wani Rambhapur

1. Profile of the farm:

"Central Demonstration Farm (CDF), Wani Rambhapur" is established in 1969 on an area of 2031.83 ha. The main objective of CDF is to implement the important seed production programme of major field crops of various stages such as breeder, foundation, certified and truthful etc. as per the directives of university authorities, ICAR Agency and requirement of M.S.S.C. Ltd., Akola. Central Demonstration Farm is one of the largest farm of university since its establishment. It is continuously playing major role in production of good quality seeds of many important crop's variety during Kharif and Rabi season as per planning made by the university. CDF Wani Rambhapur is leading center for execution of seed production programme of the University and has vast potential for revenue generation. The whole farm is divided into 17 blocks. There are Large Farm Development Project (LFD), Seed Processing Plant and Breeder Seed Production unit. This center also conducts tribal training programme under AICRP on Seed NSP-Crops/TSP.

h. Irrigation facility:

Most of the area of Central Demonstration Farm prospective area is irrigated by canals and water boards under Katepurna Irrigation Project as well as a total of 150 old and newly created ponds. Irrigation facilities are available on 600 hectares of rabi season crops such as wheat, gram, safflower, mustard, linseed and rabi jowar etc. The rest of the area is cultivated for rabi dryland crops. Protected irrigation facility has been made available by canals from Katepurna Irrigation Project.

3. Cultivable Land availability:

CDF, Wani Rambhapur is having total land 2031.83 ha, out of total cultivable land is available 1764.63 ha, and around 1362.38 ha area is presently cultivable. The net present area was 1362.38 ha available for execution of seed production programme in Kharif 2024-25.

4. Seed Production Programme:

Seed Production is the main activity of this farm. During year 2024-25, Breeder, Certified and Truthful seed production programme of different varieties of different crops like Cotton, Sorghum, Mung, Udid, Tur, Soybean, Sesamum & Millet etc. was undertaken during Kharif. During Rabi, seed production programme of Safflower, Gram, Rabi-Sorghum, Linseed, Mustard and Wheat etc is to be executed.

5. Farm Reciepts:

The total receipts during the year 2024-25 was Rs 4,61,99,880/- (Rs. Four Crore Sixty-One lakhs Ninty Nine thousand Eight Hundred Eighty only).

6. Other Information:

The Breeder seed of important field crops is produced at this farm, and distributed to different Govt. Agencies & Private Organization for organizing Foundation seed production Programme. The quantity of foundation seed of Tur, Mung Udid, Cotton and Soyabean was supplied to M.S.S.C. Ltd., Akola and NSC. As per Govt. Policy certified seed of important field crop was handed over to the MSSC, Akola for further multiplication. While Truthful Seed produced was sold to the farmers. In addition to this seed material not sold to farmers were sold to the market by following necessary procedure.

Table 1: Stage wise seed production of areas executed during 2024-2025.

S N	Season	Stage wise Area in ha.			
		Breeder	Certified	Tuthful	Total Area (ha)
A	Kharif	641.40	46.50	24.00	717.90
B	Rabi	569.30	00.00	8.00	577.30
C	Summer	2.00	0.00	0.00	2.00
Total (A+B+C)		**1212.70**	**46.50**	**32.00**	**1297.20**

Table 2: Stage wise production of seeds during 2024-2025.

S N	Season	Stage wise production in qt.			
		Breeder	**Certified**	**Tuthful**	**Total Production**
A	Kharif	4146.07	145.48	12.75	4319.30
B	Rabi	5248.31	0.00	10.35	5258.66
C	Summer	20.00	0.00	0.00	20.00
Total (A+B+C)		**9429.38**	**145.48**	**23.10**	**9597.96**

7. Major Achievements (2024-25):

- Obtained raw seed production of 4319.30 qt. in Kharif, 5258.66 qt. in Rabi season and 20.00 qt. in summer, that comes total 9597.96 qt. during 2024-25.
- Conducted tribal farmers training in Melghat/Dharni area of Amravati District under Tribal Sub Project (TSP). Input like truthful seed of Gram PDKV Kanak and Jaky-9218 @ 20 kg/bag given to 358 farmers. Total 71.60 qt. seed (amounting Rs. 6,08,600/- lakh) was distributed with free service of production technology by organizing farmer training.
- MOU has signed for collaborative project between Dr. P.D.K.V., Akola and the Mahindra Tractor Ltd. Which is helping us in various land development activities for seed production at BSPU, CDF, Wani Rambhapur.
- Out of 525 ha area under social forestry, this year 150 ha area brought under cultivation.

9. GENERAL ADMINISTRATION AND HUMAN RESOURCE

9.1. University Authorities

As per the Section-29 of Maharashtra Agricultural Universities (Krishi Vidyapeeths) Act, 1983, the following University authorities are presently functioning.

(1) The Executive Council (2) The Academic Council

(3) The Faculties (4) The Board of Studies

The brief information in respect of meetings of the above authorities and important decisions taken by the Executive Council and Academic Council are given below during the period under report.

9.1.1 The Executive Council Meeting

The Executive Council meeting was held Four times during the period under report on the dates indicated below:

(1) 22th June, 2024 **(2) 13th Suptember, 2024**

(3) 11th October, 2024 **(4) 24th January, 2025**

In all 129 resolutions were passed by the Executive Council during the period under report.

During the period under report, the following important decisions were taken by the Executive Council.

(1) 22th June, 2024

(1) Accord approval to implement the activities under the MOU signed between Dr. P.D.K.V., Akola and Vasantdada Sugar Institute, Pune.

(2) Accord approval to implement the activities and provide scholarship to the students under the MOU signed between Dr. P.D.K.V., Akola and Cotton Connect (South Asia) Pvt. Ltd., Gurgaon, Haryana.

(3) Accord approval regarding the marks of Agriculture (808) Subject of CBSE Board for admission to B.Sc. (Agriculture) and similar branches.

(4) Accord approval to implement the project 'Testing of pesticide residues in agricultural products, processed foods and environmental factors to comply with national and international residue standards' and recommends to submit the proposal to the State Government for financial sanction.

(2) 11th October, 2024

(1) Accord approval to the proposed Annual Programme 2024-25 of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola.

(2) Accord approval to the project "Targeting technologies to agro-ecological-zones large scale demonstrations of best practices to enhance cotton productivity" under the National Food Security Mission.

(3) Accord approval to accept the Donations for awarding the "Akola Chapter of Indian Society of Soil Science Gold Medal".

(4) Accord approval to the Annual Budget of the University for the year 2025-26.

(5) Accord approval to the Annual Accounts of the University for the year 2022-23.

(6) Accord approval to the Annual Report of the University for the year 2023-24.

(3) 24th January, 2025

(1) Accord approval to establish a new Government Horticulture College at Katol, Dist. Nagpur under Dr. P.D.K.V., Akola as per the recommendations of the Sixth Dean's Committee.

(2) Accord approval to implement the project "Natural / Organic farming Research / Demonstration, Input Production units and Training" approved under the Dr. Panjabrao Deshmukh National Farming Mission at Krishi Vigyan Kendra, Selsura, Dist. Wardha.

(3) Accord approval to the revised Budget of the University for the year 2024-25.

(4) Accord approval to the Annual Audit Report of the University for the year 2017-18 and 2018-19.

(5) Accord approval for providing scholarships to the Post Graduate Students of Agriculture College, Nagpur to conduct research related to Bamboo.

9.1.2 The Academic Council, Faculties and Board of Studies Meeting

The Academic Council, Faculties and Board of Studies meet was held from time to time as per the provisions of Act and Statutes. The various issues were discussed and resolutions were passed by the respective bodies like Board of Studies, Faculties and Academic Council.

Academic Council Meeting :

The Academic Council meeting was held 02 times during the period under report on the dates indicated below:

(1) 20th June, 2024 (2)17th January, 2025

In all total number of resolutions passed by the Academic Council during the period under report were 60 and following important decisions were taken by the Academic Council.

During the period the Academic Council under took the following decisions or made suitable recommendations thereon.

(1) 20th June, 2024

(1) Accord approval regarding addition of Dean Faculty of Horticulture in citation of Convocation for presenting the grandaunts for conferment of B.Sc. (Hons.) Horticulture degree.

(2) Accord approval regarding the marks of Agriculture (808) Subject of CBSE Board for admission to B.Sc. (Agriculture) and similar branches.

(3) Accord approval to the allotment of ESDM-231 (Environmental Studies and Disaster Management) and BIOCHEM-231 (Fundamentals of Plant Biochemistry and Biotechnology) courses of B.Sc. (Hons) Agriculture degree program to Department of Agronomy and Department of Agricultural Chemistry and Soil Science.

(4) Accord approval to the proposal to shift non credit Course No. PGS-502 (0+1) from Ist Semester to IInd semester and PGS-504 (1+0) from IInd semester to Ist semester for M.Sc. (Agri.) students of Agril. Extension Education discipline.

(2) 17th January, 2025

(1) Accord approval to establish a new Government Horticulture College at Katol, Dist. Nagpur under Dr. P.D.K.V., Akola as per the recommendations of the Sixth Dean's Committee.

(2) Accord approval to the proposal to increase courses/credit load of Deptt. of Animal Husbandry and Dairy Science courses in the UG degree of B.Sc. (Hons.) Agri Program syllabus of proposed VIth Dean's Committee.

(3) Accord approval to continue the Diploma in Agricultural Science (2 years) Course under Lower Agriculture Education for further period of five years at the Rural Education Institute, Amravati and Pimpri-Wardha.

Faculties and Board of Studies Meeting :

The Faculty of Post Graduate Studies, Faculty of Agriculture, Faculty of Agricultural Engineering and Faculty of Lower Agriculture Education and the Board of Studies under these faculties met on different occasions and made necessary recommendations in respect of Academic and other matters pertaining to the faculty concerned.

Annexure - I

Statement Showing the position of Backlog as on 31.03.2025

By Nomination

Cadre	No.of post sanctioned	Posts to be filled in by nomination	Posts Filled in	No. of posts of reserved category required to filled in as per percentate																			Backlog								
				SC	ST	VJ (A)	VT (B)	NT (C)	NT (D)	SBC	OBC	EWS	SEBC	Open	Total	SC	ST	VJ (A)	VT (B)	NT (C)	NT (D)	SBC	OBC	EWS	SEBC	Open	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Group-A	731	416	191	54	29	13	11	14	8	8	79	42	42	116	416	25	5	5	3	2	4	3	25	0	0	119	191	29	24	8	8	11	4	5	54	42	3	225
Group-B	270	111	26	14	8	3	3	3	3	2	21	3	3	48	111	4	2	1	2	1	2	0	5	0	0	9	26	10	6	2	1	3	1	2	16	3	39	85
Group-C	1012	704	239	92	49	21	17	26	13	14	124	70	70	198	704	40	23	8	5	10	8	8	45	5	0	87	239	52	26	13	12	18	5	6	89	65	111	465
Group-D	1434	1356	322	176	94	41	34	47	27	27	258	136	136	380	1356	60	10	2	11	6	2	7	51	0	0	173	322	116	84	39	23	40	25	20	207	136	207	1034
Total	3447	2587	778	336	180	78	65	90	51	51	492	251	251	742	2587	129	40	16	21	19	16	18	126	5	0	388	778	207	140	62	44	72	35	33	366	246	354	1809

Statement Showing the position of Backlog as on 31.03.2025

By Promotion

Cadre	No.of post sanctioned	Posts to be filled in by Promotion	Posts Filled in	No. of posts of reserved category required to filled in as per percentate																			Backlog								
				SC	ST	VJ (A)	VT (B)	NT (C)	NT (D)	SBC	OBC	EWS	SEBC	Open	Total	SC	ST	VJ (A)	VT (B)	NT (C)	NT (D)	SBC	OBC	EWS	SEBC	Open	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Group-A	731	315	170	41	22	10	9	10	6	6	0	0	0	211	315	15	5	3	2	3	0	0	0	0	0	142	170	26	17	7	7	7	6	6	0	0	0	69	145
Group-B	270	159	128	23	11	5	4	5	4	4	0	0	0	105	159	18	4	2	2	3	2	2	0	0	0	95	128	3	7	3	2	2	2	2	0	0	0	10	31
Group-C	1012	308	195	40	22	9	8	9	8	6	0	0	0	206	308	25	10	4	4	5	2	2	0	0	0	143	195	15	12	5	4	4	6	4	0	0	0	65	113
Group-D	1434	78	2	10	5	3	2	2	2	2	0	0	0	52	78	1	0	0	0	0	0	0	0	0	0	1	2	9	5	3	2	2	2	2	0	0	0	51	76
Total	3447	860	495	112	60	27	23	26	20	18	0	0	0	574	860	59	19	9	8	11	4	4	0	0	0	381	495	53	41	18	15	15	16	14	0	0	0	193	365

Human Resource

Details regarding the number of posts sanctioned and filled in the various cadres under this University are given below.

Sr. No.	Cadres	Total Employees	
		Sanctioned posts	**Posts filled in**
1	Academic Officers/Staff Members	694	340
2	Ministerial Cadres (including Other Officer)	1319	609
3	Class-IV Employees	1434	324
	Total Employees	3447	1273

10. UNIVERSITY FINANCE

During the financial year 2024-25 under the Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola 28 Agricultural Research Station, 5 Constituent Agriculture Colleges, 1 Forestry College, 1 Horticulture College, 1 Post Graduate Institute, 1 Agri. Engineering & Technology College, 2 Mali Training Center, 8 Agricultural School were under control. Besides this under the Management of the University 1 Recognized Agril. School, 2 Recognized Rural Education Institutes (Agril. Science) 2 Affiliated Agriculture College, 1 Agril Biotech College, 1 Food Tech. College & 1 Agril. Business Management College were under the control.

To implement the schemes grants are received from the State Government. The Indian Council of Agriculture Research, New Delhi has also provided financial assistance for implementation of the India Co-ordinate research project on various crops viz. Cotton, Sorghum, Pulses, Oilseeds, etc. Krishi Vigyan Kendra, National Seeds Project & other Adhoc research Project were implemented by University. The University has also implemented certain schemes on Agency basis with the assistance of the State Govt. Central Govt. & other private as well as local bodies.

Source of Income :

Grant-in-Aid from the State Government is the main source of income of the University. All India Coordinated Research Projects were implemented on 75:25 basis principles. Out of 75% grants provided by I.C.A.R., New Delhi and the remaining 25% share provided by State Government. I.C.A.R., has provided 100% finance for implementation KVK's, National Agril. Technology project and other Adhoc project. State Govt., Central Govt. Departments and other private local bodies also provide funds for implementation of project on Agency basis.

Revenue Receipt of the University for the Financial Year 2024-25 was 1550.70 lakhs.

Income and Expenditure Account for the Year 2024-25 (Provisional)

S.N.	Expenditure	Amount	S.N.	Income	Amount
1	2	3	1	2	3
1	Salary	1479536595	A)	**Revenue Receipt**	
2	Wages	197722225		1) Education receipt	75567692
3	Traveling Expenses	14739395		2) Agriculture receipt	23758308
4	Office Contingency			3) Cattle farm receipt	3185755
	1) Recurring	152252742		4) Seed receipt	24684031
	2) 06 P.O.L.	26573695		5) General receipt	27635135
5	Advertisement Charges	761582		6) Capital receipt	239442
6	Professional and special service	7773116			
7	Rent Rate and Taxes	3300588			
8	Stipend RAWE	15071212		**Total (A)**	**155070363**
9	National Talent Scholarship	2921874	B)	**Grant-in-aid**	
10	Hospitality	98000		**1) State Govt.**	5273663405
11	Motor Vehicle	28428190		**2) ICAR**	194211824
12	Maintenance	140967778		**3) Agencies Scheme**	153336688
13	Material and supplies	152855562		**Total (B)**	**5621211917**
14	Pension and Gratuity	1573206252			
15	other expenditure	25000		**Net Grant-in-Aid**	**5621211917**
16	Cont. GIA to A.I.	8818247			
17	DCPS	32117813			
	Total (1 to 17)	**3838169866**			
18	Surplus Assets credited to Balance Sheet	**1939112414**			
	Grand Total	**5776282280**		**Grand Total**	**5776282280**

11. INFRASTRUCTURE DEVELOPMENT

The University Engineer's Office working since January 12, 1971 for carrying out agricultural education and research related to agricultural works within the universities as well as various types of constructions (e.g. Establishment of Agricultural College, Research centers and offices, Krishak Bhawan for residential arrangement of farmers, Agricultural Engineering College, Agricultural Technical School, Agricultural Science Center etc.). Earlier constructions were done through Public Works Department. But since the scope of the University is in total 11 Districts, it is necessary to do a lot of constructions in the future, therefore, a separate Construction Department was established through the University. At present, 2 Civil Sub-Divisions (1-Akola and 1-Nagpur) and 1-Electrical Sub-Division, Akola are functioning under the Office of University Engineer and all type of works are being done regularly and they are going on smoothly through this Office. Also, this Department is responsible for planning and maintenance of water supply under the entire University at Akola.

Under Dr. Panjabrao Deshmukh Agricultural University, Akola, in the financial year 2024-2025, total 15 works (above 3.00 lakhs) related to Construction and Electrification had done by this Department under Sub-Division of Akola & Nagpur and 15 works are in progress. The abstract submitted as follows for further action.

('A' - work completed):

S.N.	Name of works	Estimated cost in lakhs	Progress of the works
1	Construction of Seed Processing Hall at C.D.F. Wani Rambhapur, Dr. PDKV Akola.	Rs. 10.00	Work completed
2	Construction of Seed Storage Godown at C.D.F. Wani Rambhapur, Dr. PDKV Akola.	Rs. 10.00	Work completed
3	Construction of W.B.M. Road (400 x 3.5 m wide) at Agriculture Research Station Ekarjuna, Tah. Warora, Distt. Chandrapur for Dr. PDKV Akola.	Rs. 12.42	Work completed
4	Construction of Seed Processing Plant at A.T.S. Dharni under Dr. PDKV Akola.	Rs. 19.94	Work completed
5	Providing repair & renovation to Dr. KR Thakre Hall at College of Agriculture Dr. PDKV Akola (Part-C) civil work flooring for main hall, dais, first floor gallery lobby, staircase, Corridor & dais ceiling.	Rs. 103.07	Work completed
6	Providing construction of threshing yard at oil seed department at Dr. PDKV Akola.	Rs. 14.72	Work completed
7	Providing Seating Aarrangement main hall, gallary & furnishing arrengment for dias Dr. KR Thakre Hall at Collage of Agrilculture Dr. PDKV Akola.	Rs. 45.56	Work completed
8	Providing Repairs to Compound of Gudaddhi Block at Dr. PDKV Akola.	Rs. 344.86	Work completed
9	Construction of training hall with lab, office, godown cum store at Agriculture Research Station Ekarjuna, Tah. Warora, Distt. Chandrapur under Dr. PDKV Akola.	Rs. 91.25	Work completed
10	Electrification of Training Hall with Lab, Office, Godown cum Store including at Agriculture Research Centre Ekarjuna, Tah. Warora, Distt. Chandrapur under Dr. PDKV Akola.	Rs. 12.30	Work completed

11	Construction of Girls Hostel of P.G. Students at College of Agril. Nagpur under Dr. PODKV Akola.	Rs.491.56	100% work completed
12	Construction to first floor of existing Girls Hostel (AHILYA) at Dr. PDKV Akola.	Rs. 92.06	Work completed
13	Construction of Experimental Farm under Orange Improvement Project at Futala including chainlink fencing & auto shed at College of Agrilculture Nagpur under Dr. PDKV Akola.	Rs. 36.98	Work completed
14	Providing EI to first floor of existing Girls Hostel (AHILYA) at Dr. PDKV Akola.	Rs. 7.91	Work completed
15	Providing Accoustic Treatment (Wall Panelling) to Examination Hall at Dr. PDKV Akola.	Rs. 53.25	Work completed

('B' - work in progress):

S.N.	Name of works	Estimated cost in lakhs	Progress of the works
1	Construction of Building & Shed for Strengthening of Research Work, Seed Production & Extension Work at Zonal Agriculture Research Station, Sindewahi	Rs.1146.39	98% work is completed. Distt. Chandrapur under Dr. PDKV Akola. Finishing works in Progress.85% Electrical work completed. Remaining work is in progress.
2	Construction of Mali Training Centre for Maharajbagh on Land of Survey No. 83/4 at Mouza Lendhra (Maharajbagh Division) Nagpur for College of Agril. Nagpur under Dr. PDKV Akola.	Rs.544.56	98% work is completed. Paver blocks fitting, Finishing works is in Progress.85% Electrical work completed. Remaining work is in progress.
3	Providing chain link fencing (2400.00 rmt.) at Agriculture Research Station Ekarjuna, Tah. Warora, Distt. Chandrapur for Dr. PDKV Akola.	Rs.33.96	45 % work of Fencing is Completed near Pandhan Road side. Remaining Poles fixing work is in progress.
4	Construction of new Admistrative Building & Training Hall of Krishi Vigyan Kendra, Sakoli, Bhandara under Dr. PDKV Akola.	Rs. 171.10	45% work is completed. Remaining work is in progress.
5	Electrification of Training Hall for Krishi Vigyan Kendra, Selsura, Wardha under Dr. PDKV Akola.	Rs. 5.09	Building work is in progress
6	Construction of barbed wire fencing, chain link fencing for Well & Cattel trap trench for Krishi Vigyan Kendra, Selsura, Wardha under Dr. PDKV Akola.	Rs. 25.13	Work is in progress.

7	Construction of open well for Krishi Vigyan Kendra Selsura, Wardha, under Dr. PDKV Akola.	Rs. 6.98	Work not started yet. Rs. 300/- per day, penalty is recommended for the period of 01.02.2025 to till completion of work.
8	Construction of training hall for Krishi Vigyan Kendra Selsura Wardha uinder Dr. PDKV Akola.	Rs. 55.51	Filling in plinth work is completed. Plinth slab work is in progress.
9	Electrification of new admistrative building & training hall of Krishi Vigyan Kendra, Sakoli, Bhandara under Dr. PDKV Akola.	Rs. 15.70	Work is in progress.
10	Construction of First Floor of Silver Jubilee Guest House at Dr. PDKV Akola.	Rs. 78.44	Work is in progress.
11	Providing chain link fencing at Washim Road Farm under Dr. PDKV Akola.	Rs. 16.00	70% work completed. Remaining work is in progress.
12	Construction of Main Gate at Washim Road Farm under Dr. PDKV Akola.	Rs. 7.13	Work is in progress.
13	Providing Repairs & Renovation of Main Gate at Dr. PDKV Akola.	Rs. 29.87	Work is in progress.
14	Construction of Godown (15.49 x 8.94 m) for KVK Selsura Dist. Wardha under Dr. PDKV Akola.	Rs. 40.78	Work is in progress.
15	Providing Repairs to well (Size 50x50 ft.) at Field Plot No. 50 Fruit Science Deptt. under Dr. PDKV Akola.	Rs. 17.02	Work at final stage.

Dr. Panjabrao Deshmukh Smruti Kendra
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