



46th

ANNUAL REPORT

2017-18



Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth
Dapoli 415 712, Dist. Ratnagiri (M.S.).

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Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth

Dapoli 415 712, Dist. Ratnagiri (M.S.)



Dr. S. D. Sawant,
Vice Chancellor,
Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth,
Dapoli, Dist. Ratnagiri.

FOREWORD

I am very happy to present 46th Annual Report of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri. A review of the key contribution of the University in the fields of education, research and extension education during the year 2017-18.

Considering the agro-climatic and geographical condition of the Konkan region, the University conducted several research experiments and projects at different places. During the report year, three improved crop varieties namely; Rice-BARC KKV-13 (Trombay Karjat Kolum), Cashia, Nutmug, one farm implements viz. KKV, Conoweeder and 51 research findings based on crop production technologies from different faculties have been recommended by the Joint AGRESCO committee in 2018.

Under the report year the University students participated in different games and sports competitions viz. 21st Maharashtra Inter University Sports Meet, All India Inter Agril. University's Games and Sports Meet and exhibited their skills. The students' performance in cultural events like 'MAYURPANKH', 'INDRADHANUSHYA', and Agri. Unifest was noteworthy. The students of this University also represented in the Inter-collegiate and Inter- University research festival '(AVISHKAR)'.

In the NSS Programme volunteers from affiliated and constituent colleges under the University enrolled during the reporting year and conducted various programmes like blood donation and health camp, tree planting and Shramadan under "Swachchha Bharat Abhiyan".

The University was actively involved in transfer of improved agricultural technology to the farmers and farm entrepreneurs by organizing various training programmes, farmers'rallies, crop demonstrations, Farmers-Scientists-Forum (FSF) meets, seminars, workshops and many other extension programmes.

For implementation of the above said events, programmes and activities the University received constant encouragement and support from H.E. Governor of Maharashtra, Hon. Pro-Chancellor of the University and Minister for Agriculture of Maharashtra State, Maharashtra

Council of Agricultural Education and Research, Pune and Indian Council of Agricultural Research, New Delhi. Due to the generous assistance, the University is making substantial progress. I am grateful to all of them. I am also thankful to all the University officers and employees for their collective efforts and contribution.

I would like to place on record the efforts taken by Director of Research and his team in preparation of this annual report.

Place : Dapoli.

Date : 15/05/2019



(Dr. S. D. Sawant)

Vice Chancellor



Hon. Shri. C. Vidyasagar Rao
H.E. Governor of Maharashtra



Hon. Shri. Devendra Phadanvis
Chief Minister,
Maharashtra State



Hon. Shri. Pandurang Fundkar
Minister for Agriculture
Maharashtra State



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Minister of State for Agriculture
Maharashtra State.



Hon. Dr. Ram Kharche
Vice Chairman
Maharashtra Council of
Agril. Education Research, Pune



Hon. Dr. Tapas Bhattacharyya
Vice Chancellor,
D.B.S.K.K.V., Dapoli.
(From 6/11/2015)

Executive Council Members

Dr. Tapas Bhattacharyya Vice Chancellor, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli	The Director of Agriculture (Hort.), Commissionerate of Agriculture, Pune
The Director of Animal Husbandry Commissionerate of Animal Husbandry, Pune.	The Director of Horticulture, Maharashtra State, Shivajinagar Pune
The Chief Conservator of Forests Office of the Chief Conservator of Forests, Shivajinagar, Pune.	The Regional Dairy Development officer, Off. of Mumbai Division, Konkan Bhavan, New Mumbai
The Commissioner of Fisheries Commissionerate of Fisheries, Mumbai.	The Director of Extension Education, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
Dean (Agri.), Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli	Dr. R.K.Pal, Director, National Promogranate Research Centre, Solapur- 413 255.
Dr. Shayamkant V. Jahagirdar, Madhumalti Appt., Vaphare Wadi, Pathar Peth, Akola (Since 12.09.2016)	Shri. S.N.Jha Assistant Director (PE), ICAR, New Delhi (Since 03/10/2017)
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Shri. Rajan Salvi, Hon. Member of Legislative Assembly, 1274, Ashirwad, Teli aali, Ratnagiri 415 612	Shri. Sanjay Vasant Kadam, Hon. Member of Legislative Assembly, At/Po. Chinchghar (Prabhuwadi), Tal-Khed, Dist. Ratnagiri.
Registrar, Member Secretary, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli	

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1. INTRODUCTION



Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli was established by Government of Maharashtra on 18th May 1972 with a view to fulfil the needs of Agricultural Education, Research and Extension in Konkan region of Maharashtra State. The jurisdiction of the University encompasses six districts viz. Palghar, Thane, Raigad, Ratnagiri, Sindhudurg and Greater Mumbai. The region has hilly terrains and extensive long seacoast of 720 km., which receives heavy rainfall ranging from 2000 to 4000 mm. mostly during June to September. The climate of the region is warm and humid almost throughout the year.

Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli imparts instructions leading to undergraduate and post graduate degree programmes under Faculties of Agriculture, Fisheries and Agricultural Engineering and Technology. The College of Agriculture, College of Forestry and College of Agricultural Engineering and Technology are situated at Dapoli, College of Fisheries at Ratnagiri, College of Horticulture at Mulde, Tal. Kudal, Dist. Sindhudurg and Post Graduate Institute of Post Harvest Management at Killa-Roha, Dist. Raigad. The course, Diploma in Agriculture Technology is being conducted at Roha and Lanja and one year duration Mali Training Course at Dapoli and Palghar. Diploma in Fisheries Engineering, a course of three years duration has been started at College of Fisheries, Ratnagiri. Jurisdiction of the University is divided into South and North Konkan Coastal Zones in which sixteen research stations are functioning at different places. In Konkan region, four Krishi Vigyan Kendras; among them two directly working under the University and two to NGOs are in accordance with transfer of technology. Regional Fruit Research Station, Vengurle and Regional Agricultural Research Station, Karjat are the main research centres of the University. The University has extended affiliation to the private non grant colleges. There are total seven Agricultural colleges, one each Horticulture and Agril. Engineering colleges, two Agri-Business Management colleges and four colleges of Biotechnology and Food Technology. There are seven Colleges of Agriculture, one College of Horticulture, one College of Agricultural Engineering and Technology, two Colleges of Agricultural Marketing and Business Management, four Colleges of Food Technology and four Colleges of Agricultural Bio-technology are affiliated to the University and running on non-grant basis. There are thirty four Agri-polytechnic Schools affiliated to the University. The jurisdiction of the University and its major centres are shown in the map overleaf.

This 46th Annual Report of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli includes the information on education, research and extension education activities carried out from 1st April 2017 to 31st March, 2018.



Jurisdiction of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist. Ratnagiri



North Konkan Coastal Zone

- Palghar
- Thane
- Mumbai
- Bandra
- Raigad
- Panvel
- Karjat
- Roha
- Repoli
- Shriwardhan

South Konkan Coastal Zone

- Ratnagiri
- Dapoli
- Wakavali
- Awashi
- Shirgaon
- Bhatye
- Zadgaon
- Sindhudurg
- Phondaghat
- Rameshwar
- Mulde
- Nileli
- Vengurle



2. EDUCATION AND STUDENTS WELFARE



2.1 Education

Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli is imparting education to the following under-graduate and post-graduate programmes.

A) Under-graduate Degree programme

- | | |
|-------------------------|------------------------------|
| 1) B.Sc. (Agri.) | 2) B.Sc. (Hort.) |
| 3) B.Sc. (For.) | 4) B.F.Sc. (Fisheries) |
| 5) B.Tech. (Agri.Engg.) | 6) B.Tech. (Food Technology) |
| 7) B.B.M. | 8) B.Sc. (Bio Technology) |

B) Post-graduate Degree programme

- | | |
|-------------------------|-----------------------|
| 1) M.Sc. (Agri.) | 2) M.Sc. (Hort.) |
| 3) M.Sc. (For.) | 4) M.F.Sc. |
| 5) M.Tech. (Agri.Engg.) | 6) M.Sc. (PHM) |
| 7) M.Sc. (Biotech) | 8) Ph.D.(Agri.) |
| 9) Ph.D. (Agri.Engg.) | 10) Ph.D. (Fisheries) |

2.1.1 Under-graduate/Post-graduate degree programme

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

Sr. No.	Degree Programme	Period (Years)	No. of students admitted 2017-18	No. of students passed out 2016-17
1	2	3	4	5
A)	Constituent Colleges			
1.	College of Agriculture, Dapoli			
	B.Sc. (Agri.)	4	158	111
	B.Sc. (Hort.)	4	–	29
	M.Sc. (Agri.)	2	64	49
	M.Sc. (Hort.)	2	32	18
	M.Sc. (Biotech)	2	03	05
	Ph.D. (Agri.)	3	16	13
2.	College of Forestry, Dapoli			
	B.Sc. (Forestry)	4	32	25
	M.Sc. (Forestry)	2	02	01



1	2	3	4	5
3.	College of Fisheries, Ratnagiri			
	B.F.Sc.(Fish.)	4	40	43
	M.F.Sc.(Fish.)	2	27	10
	Ph.D.(Fish)	3	01	06
4.	College of Agriculture Engg. & Tech. , Dapoli			
	B.Tech. (Agri. Engg.)	4	67	52
	M.Tech. (Agri. Engg.)	2	21	17
	Ph.D. (Agri. Engg.)	3	04	03
5.	P.G. Institute for Post Harvest Management, Roha			
	M.Sc.(PHM)	2	16	16
6.	College of Horticulture, Mulde, Dist. Sindhudurg			
	B.Sc.(Hort.)	4	93	39
B)	Recognised Private Affiliated Colleges			
1.	Govindraoji Nikam College of Agriculture, Mandki Palvan, Chiplun, Dist. Ratnagiri	4	180	95
2.	Budhajirao Mulik College of Agril Engg. & Tech., Mandki, Dist. Ratnagiri	4	80	82
3.	College of Agriculture, Saralgaon, Tal. Murbad, Dist. Thane	4	129	116
4.	Chatrapati Shivaji College of Agriculture, Kirlos, Dist. Sindhudurg	4	90	63
5.	Sharadchandraji Pawar College of Horticulture, Kharavate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri	4	80	46
6.	Sharadchandraji Pawar College of Food Technology, Kharavate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri	4	80	75
7.	Shri S.S. Patil, College of Agril. Marketing and Business Management, Rasayani, Panvel, Dist. Raigad	4	-	26
8.	Sharadchandraji Pawar College of Agriculture, Kharavate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri	4	181	128
9.	College of Food Technology, Saralgaon, Dist. Thane	4	63	49
10.	College of Agril. Marketing and Business Management, Kirlos, Dist. Sindhudurg	4	38	31
11.	College of Agriculture, Sangulwadi, Dist. Sindhudurg	4	120	139



1	2	3	4	5
12.	Late. Rajaram Marathe College of Agriculture, Phondaghat, Dist. Sindhudurg	4	119	51
13.	Sharadchandraji Pawar College of Agril. Biotechnology, Kharavate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri	4	40	30
14.	College of Agriculture, Achloli, Mahad, Dist. Raigad	4	56	42
15.	College of Agri. Bio-technology, Achloli, Mahad, Dist. Raigad	4	39	10
16.	College of Bio-technology, Saralgaon, Dist. Raigad	4	39	07
17.	College of Bio-technology, Sangulwaladi, Dist. Sindhudurg	4	40	16
18.	College of Food-technology, Sangulwaladi, Dist. Sindhudurg	4	37	-
19.	College of Agri. Food-technology, Achloli, Mahad, Dist. Raigad	4	36	-
20.	College of Agril Engg. & Tech. Sangulwaladi, Dist. Sindhudurg	4	39	-
21.	College of Horticulture, Sangulwaladi, Dist. Sindhudurg	4	40	-
22.	College of Agril Engg. & Tech., Saralgaon, Dist. Thane	4	37	-
23.	College of Horticulture, Saralgaon, Dist. Thane	4	40	-

2.1.2 Lower Agriculture Education

University imparts Lower Agricultural Education Programme through following Diploma and Certificate course.

- 1) Diploma in Agriculture Technique (Two Years)
- 2) Diploma in Agriculture Technology (Agriculture Polytechnic-Three Years)
- 3) Diploma in Fisheries Engineering (Three Years)
- 4) Gardening Technique Certificate Course (One Year)

Two years diploma in Agriculture Technique has been run by the two constituent and two affiliated schools. Government has upgraded two year diploma in Agriculture Technique run by private non-grant school into the three year diploma in Agriculture Technology. Since year 2013-14 three year diploma in Agriculture Technology has been started in thirty four non-granted private schools.

Students admitted and passed out from different educational programmes during the report period is as under.



2.1.2.1 Diploma in Agriculture Technique (Agri)

Sr. No.	Name of School	First Year (2017-18)	Second year (2017-18)	Second year passed out student (2016-17)
1	2	3	4	5
A) Constituents Schools				
1.	Agril. Tech. School, Lanja, Dist. Ratnagiri	24	29	35
2.	Agril. Tech. School, Roha, Dist. Raigad	32	22	15
B) Affiliated Schools				
1.	Agril. Tech. School, Kosbad Hill, Tal. Dahanu, Dist. Palghar	28	34	24
2.	Mahatma Gandhi Adivasi Janata Vidyalay, Kosabad Hill, Tal. Dahanu, Dist. Palghar	35	27	13
C) Private Schools				
1.	Agril. Tech. School, Sawarde, Tal. Chiplun Dist. Ratnagiri	14	13	-
2.	Agril. Tech. School, Sangurli, Tal. Panvel	07	-	-

2.1.2.2 Diploma in Agriculture Technology (Agriculture Polytechnic)

Sr. No.	Name of School	Admitted Students (2017-18)			Passed out Student Academic Year (2016-17)		
		First Year	Second year	Third Year	First Year	Second year	Third Year
1	2	3	4	5	6	7	8
C) Recognized Private Schools							
Thane & Palghar District							
1	Agriculture Polytechnic, Khanivali, Tal. Bhivandi, Dist. Thane.	36	47	35	15	30	35
2	Keshav Srushti Agriculture Polytechnic, Bhaindar, Dist. Thane	47	44	49	22	31	14



Sr. No.	Name of School	Admitted Students (2017-18)			Passed out Student Academic Year (2016-17)		
		First Year	Second year	Third Year	First Year	Second year	Third Year
1	2	3	4	5	6	7	8
C) Recognized Private Schools							
Thane & Palghar District							
3	Agriculture Polytechnic, Saralgaon, Tal. Murbad, Dist. Thane	52	48	32	32	22	13
4	Shri Tisai Agriculture Polytechnic. School, Lenad, Tal. Shahapur, Dist. Thane	20	26	21	14	13	21
5	Mandar Agriculture Polytechnic, Kolimb, Tal. Kalyan, Dist. Thane	53	53	33	38	30	09
6	Agriculture Polytechnic, Asangaon, Tal. Dahanu, Dist. Palghar	59	38	52	16	34	03
7	Agriculture Polytechnic, Wirewadi, Tal. Dahanu, Dist. Palghar	49	35	39	13	16	07
Raigad District							
8	Agri. Polytechnic, Sangurli, Tal. Panvel, Dist. Raigad	-	-	08	-	06	--
9	Motiram Jagtap Agriculture Polytechnic, Kokare, Tal. Mahad, Dist. Raigad	08	17	22	09	21	17



Sr. No.	Name of School	Admitted Students (2017-18)			Passed out Student Academic Year (2016-17)		
		First Year	Second year	Third Year	First Year	Second year	Third Year
1	2	3	4	5	6	7	8
C) Recognized Private Schools							
Raigad District							
10	Prof. C.R.Mhaske Agriculture Polytechnic, Ware, Tal. Karjat, Dist. Raigad	22	16	24	10	15	23
11	Agriculture Polytechnic, Nandgaon Khurd, Tal. Mahad, Dist. Raigad	50	17	13	11	03	04
12	Raigad Agriculture Polytechnic, Galsure, Tal. Shriwardhan, Dist. Raigad	43	20	20	11	11	08
Ratnagiri District							
13	Agriculture Polytechnic, Khawati, Tal. Khed, Dist. Ratnagiri	22	12	05	01	03	01
14	Agriculture Polytechnic, Sukiwali, Tal. Khed, Dist. Ratnagiri	-	05	06	04	04	01
15	Agriculture Polytechnic, Deorukh (Matrumandir), Tal. Sangmeshwar, Dist. Ratnagiri	15	13	07	07	07	04
16	Sharad Kelkar Agriculture Polytechnic, Mandki-Palwan, Tal. Chiplun, Dist. Ratnagiri	-	09	12	03	11	05



Sr. No.	Name of School	Admitted Students (2017-18)			Passed out Student Academic Year (2016-17)		
		First Year	Second year	Third Year	First Year	Second year	Third Year
1	2	3	4	5	6	7	8
C) Recognized Private Schools							
Ratnagiri District							
17	D. G. Tatkare Agriculture Polytechnic, Kharawate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri	10	21	20	11	17	15
18	A.B. Agriculture Polytechnic, Shirgaon, Tal. Mandangad, Dist. Ratnagiri	-	-	-	02	06	-
19	Agriculture Polytechnic, Sawarde, Tal. Chiplun, Dist. Ratnagiri	--	--	--	--	--	05
Sindhudurg District							
20	Agriculture Polytechnic, Sangulwadi, Tal. Vaibhavwadi, Dist. Sindhudurg	23	15	06	04	01	03
21	Smt. Sumati Marathe Agriculture Polytechnic, Phondaghat, Tal. Kankawali, Dist. Sindhudurg	20	20	10	13	10	09
22	Agriculture Polytechnic, Waliwande, Tal. Deogad, Dist. Sindhudurg	59	31	24	16	17	05



Sr. No.	Name of School	Admitted Students (2017-18)			Passed out Student Academic Year (2016-17)		
		First Year	Second year	Third Year	First Year	Second year	Third Year
1	2	3	4	5	6	7	8
C)	Recognized Private Schools						
	Sindhudurg District						
23	Late Tatyasaheb Tawade Agriculture Polytechnic, Wadachapat, Tal. Malwan, Dist. Sindhudurg	28	10	03	09	03	07
24	Agriculture Polytechnic, Digas, Tal. Kudal, Dist. Sindhudurg	07	09	03	07	03	03
25	Agriculture Polytechnic, Tondavali	--	--	--	04	05	--
26	Agriculture Polytechnic, Madkhol, Tal. Sawantwadi, Dist. Sindhudurg	43	15	13	10	10	05
27	Agriculture Polytechnic, Padlos, Tal. Sawantwadi, Dist. Sindhudurg	41	44	21	30	13	13
28	Agriculture Polytechnic, Harkul budruk, Tal. Kankawali, Dist. Sindhudurg	08	21	06	15	08	03



2.1.2.3 Diploma in Fisheries Engineering

Sr. No.	Name of School	First Year (2016-17)	Second year (2017-18)	Third year (2017-18)	Third Year Passed out Students
1	Diploma in Fisheries Engineering, Shirgaon, Dist Ratnagiri	21	20	20	25

2.1.2.4 Gardening Technique Certificate Course

Sr. No.	Gardening Technique Certificate course Center Name	Admitted Students (2017-18)	Passed out Students
1.	Gardening Technique Certificate Course, Dapoli (Constituent)	13	09
2.	Gardening Technique Certificate Course, Palghar, Dist. Palghar (Constituent)	19	03
	Total	32	12

2.2 LIBRARY

2.2.1 University Library, Dapoli

The University library is located in Dapoli campus is enriched with books, periodicals, thesis and literature in Marathi, Hindi and English. The library started functioning in the year 1965 i.e. from the inception of the College of Agriculture, Dapoli. After the establishment of the University on 18th May, 1972, the college library was nurturing the needs of both the institutes i.e. College and the University. On 1st January 1986, it received the status of the University library. The Library Advisory Committee is constituted under the Chairmanship of one of the Directors of the University. The library fulfils the needs of the College of Agriculture, College of Horticulture, College of Agricultural Engineering & Technology and College of Forestry in Dapoli campus. The College of Horticulture, Mulde; Post Graduate Institute of Post Harvest Management, Roha; College of Fisheries, Ratnagiri, other research stations, Krishi Vigyan Kendra's and Agriculture Technology Schools maintain separate libraries at their respective headquarters. Even different departments of College of Agriculture, Dapoli maintain a small sectional library.



2.2.1.1 Infrastructure

The University library with a carpet area of 2652 Square meter is a magnificent two storeyed building, center staged on the hillock facing the entrance gate of the University campus. The building is constructed with the planning for anticipated needs and scope for future expansion. It is approachable within 5 minutes by walk from the hostels as well as offices of all the departments. Inside the building, the library has a big three tier stack room, three reading halls, spacious separate rooms for storing the books, back volumes of journals and volumes received as gratis and newspaper section, reprographic unit, night library section, cubicle section for P. G. students, acquisition-cum-office unit and issue counter.

2.2.1.2 Literature available in the University

Sr. No.	Types of literature	Number of holding
1.	Books	51514
2	Periodicals subscribed	85
3.	Books / periodicals received on grants	32
4.	Bound back volumes of periodicals	6136
5.	Thesis	3280
6.	Literature on and Marathi / Hindi / English	12
7.	Encyclopedias / Dictionaries / Gazetteers / Atlases etc.	700
8.	Newspapers	13
9.	Compact Disk	1296

E-RESOURCES

CeRA	Access for 2500 + Full Text E-Journals of Agricultural and Allied subjects.					
Krishikosh:	E-Thesis	E-Books	E-Journals	Articles	Reports	Institutional Publications
	98865	15872	17672	9723	3311	1296

2.2.1.3 Services and Facilities

Sr. No.	Services	Facilities
1.	Digital Library	Web OPAC
2.	Bibliography	Open access system
3.	Reference collection	Periodicals section
4.	Books lending	Cubical section reading unit for PG students
5.	Computer / printer / photocopy service	Section for competitive examination books
6.	Fax machine	Book banks for economically backward class and SC/ST students.
7.	Internet	Night library
8.	Document delivery service through CeRA	RFID system



2.2.1.4 Modernization of the University Library

- ◆ The University library automated with the Koha and SLIM 21 software. All the library house operations are managed by the SLIM and Koha integrated library management software.
- ◆ Installed & implementing Radio Frequency Identification system (RFID) in the library by upgrading available SLIM 21 as well as Koha integrated library management software.
- ◆ SMS alerting service :- The users are alerting on issue of return of the document.
- ◆ The facility of online access for e-resources is available for students and staff for the university campus .
- ◆ Digitized M.Sc. and Ph.D. theses has been uploaded and accessible through Krishiprabha / Krishikosh university library Web OPAC.
- ◆ Wi-fi :- Wi-fi service provided in the library premises.

2.2.2 College of Agricultural Engineering and Technology, Dapoli

College of Agricultural Engineering and Technology has well established Computerize Library. The college library is Facilities with latest configuration computers to utilize the electronic information like Cera CAB abstracts for improvement of academic and research programs and also SLIM-21 (System for Library information management) software to facilitate the online record keeping, book searching, of student and staff.

The existing book collection of CAET Library is strengthened with adding 125 new books with latest edition in Agricultural Engineering during the year 2017-2018 A digital copier has been available in the Library to facilitate Xerox of the study and reference material available in the Library for students as well as staff . College of Agricultural Engineering and Technology has developed separate competitive examination cell for the benefit of students who are appearing for different competitive examination. CAET, Library had purchased cctv Camera During Year 2017-18 forty three (43) New books were purchased according to VI Dean committee report . The available material in the Library is

2.2.3 College of Forestry, Dapoli

The College library is computerized by implementing e-Granthalaya software developed by NIC and freely available for Government libraries. Library consists 3126 copies including 1411 books on various forestry subjects, current subscription of 14 periodicals and bound volumes of several journals. Library also holds 66 educational DVDs, CABI database, 100 volume database of Journal of Bombay Natural History Society. Reprography facility is made available to students in the library.

In the reporting year, library was given a budget of Rs. 10 lakh and the same was used to procure 260 books, full historical database of Indian Forests, bookcases and other



2.2.4 College of Fisheries, Ratnagiri

The existing book collection in the College library is strengthened due to the addition of new editions in the Fisheries Science and allied disciplines. The latest books, periodicals, online foreign journals and competitive books collection during the year 2016-17 having a total no. of 14800 helps to strengthen UG and PG academic programmes and improves the knowledge of the students, teachers and scientists. In the reporting year, funds allocated to the college library which was utilized for purchase of books, journals and for purchase of computers, scanners, printers. Also, the expenditure was spent on purchase of library glass door book cases, purchase of book trolley and book support and for installation of CCTV in the library.

2.3.6 Post Graduate Institute of Post-Harvest Management, Killa-Roha, Dist. Raigad.

The library facility is available in Institute Campus at Killa-Roha. There are books, reference books and other reading material of various academic subjects kept for the ready reference of the students and staff of the Institute. In the reporting year, Rs. 5.11 lakhs funds were allocated to the college library which was utilized for purchase of books. In the library. Also, the funds were utilized for purchases of cupboards, bookshelf, notice board and reading table etc..

2.3 Student's Welfare

2.3.1 Sports Activities

2.3.1.1 Inter-Collegiate Tournaments (Sportex)

The intercollegiate tournaments for Basketball, Volleyball, Athletics, were organized by of this University during 07th and 09th October, 2017 at Sharadchandraji Pawar College of Horticulture, Kharawate-Dahiwali, Tal. Chiplun, Dist. Ratnagiri while the same for Kabaddi & Kho-Kho were organized by Govindraoji Nikam College of Agriculture, Mandki Palwan, Tal. Chiplun Dist. Ratnagiri from 10-11 Oct. 2017.

Selection trails for Inter-college Table Tennis, Chess and Badminton were held on 7th – 8th January 2018 by this Office. In these tournaments, a total of 1500 players and 60 managers from 22 affiliated and 5 constituted colleges were participated. All the tournaments were conducted smoothly and majority of the students took an active part in various games.

2.3.1.2 Inter University Tournament

2.3.1.2.1 Kridamahotsav

The university teams participated in Krida Mahotsav conducted by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli during 27 November to 1st December 2017. The teams represented in 5 games of Basketball, Kabaddi, Kho-Kho, Volleyball and Athletics. A total of 1062 Boys students and 960 girls students from different 20 university's participated



in these tournaments.

2.3.1.2.2 All India Inter-Agricultural Universities Meet - 2017-2018 (ICAR SPORTS MEET)

During the year of report, an All India Inter Agril. University's Games and Sports Meet was organized by University of Agricultural Sciences, Bangalore from 30th February to 3rd March 2018. A team of 42 players and 3 Team Managers participated in the different events. In individual events, Miss. Poonam Khambe won Gold Medal in long jump & Bronze Medal in 200 m running as an athletic event.

2.3.2 Co-Curricular Activities

2.3.2.1 Mayurpankh

The inter-collegiate cultural competition 'Mayurpankh' was organized by College of Horticulture, Mulde Tal. Kudal Dist. Sindhudurg. In this Youth Festival, a total of 716 participants from 27 constituent and affiliated colleges participated in various events like Music, Dance, Theatre, Literary & Fine Arts as a part of the competition. In this cultural competition, College of Agriculture, Dapoli was the winner team while College of Horticulture, Mulde, Tal. Kudal, Dist. Sindhudurg was the runner-up team. This event was held for the selection of the university teams to participate in Inter-University competition.

2.3.2.2 Indradhanushya

The 14th Maharashtra State Inter-University Cultural Youth Festival 2017-18 "Indradhanushya" was organized by Vasanttrav Naik Marathwada University, Parbhani during 5th to 9th November 2017. The university team of 37 artists along with 2 team managers participated in the said youth festival. In Literary event-Quiz, the participated team got 3rd rank at state level.

2.3.2.3 AGRUNIFEST

All India Inter Agricultural University's Youth Festival 2017-18 "AGRUNIFEST" was organized by Sri. Venkateshwara veterinary University, Tirupati (A.P.) from 12th to 16th February 2018. The university team of 24 artists (13 boys and 11 girls) participated in this festival. In Fine arts, Mr. Akash Borchate, a student of Kai. Rajaram Marathe College of Agriculture, Phondaghat, Tal. kankawali, Dist. Sindhudurga got 3rd rank in Collage at National level.

2.3.3 Research Convention

2.3.3.1 Inter-collegiate Research Convention

This Research convention for the year 2017-18 was organized by College of Agriculture, Dapoli, Dist. Ratnagiri from 30th to 31st Dec. 2017. Total 27 participants from 5



Colleges displayed 27 Research Projects. Some selected research projects were sent for representing the university at state level.

2.3.3.2 The 12th Inter-University Research Convention (Avishkar)

The 12th Inter-University Avishkar 2017-18 was held at Mahatma Phule Krishi Vidyapeeth, Rahuri from 15th to 17th Jan. 2018. The university was represented by 12 students in this Inter-University Research Convention. Miss. Pooja Pawar, a Ph. D. (PPG) and Mr. Abhishek Nawale, M.Tech. (P.G.), the students of College of Agril. Engg. & Tech., Dapoli, Dist. Ratnagiri received 2nd place for the projects presented by them under 2 different categories at state level.

2.3.4 Disaster Management Training Programme (AVHAN)

Avhan, a training programme for disaster management for the year 2017-18 was conducted by Shivaji University, Kolhapur from 1st June to 10th June 2017. This university utilized all the 8 vacancies (6 boys and 2 girls) earmarked for the participation. Miss. Shamika Sawant, a student of College of Fisheries, Shirgaon, Ratnagiri has been awarded with State Level Best NSS Volunteer Award.

These trained students will form a part of the Chancellor's Brigade which will render help in case of any natural calamity in the nearby place.





3. RESEARCH



3.1 Climate and Crop condition

The jurisdiction of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli encompasses, from 15^o.37' to 20^o.20' North latitude and 70^o.7' to 74^o.13' East longitude, spread over districts viz., Palghar, Thane, Raigad, , Ratnagiri, Sindhudurg and Greater Mumbai. There are two agro climatic zones viz., North Konkan coastal zone comprising the districts viz., Palghar, Thane, Raigad and Greater Mumbai and South Konkan Coastal Zone comprising the districts viz., Ratnagiri and Sindhudurg. The region has a hilly terrain and a long seacoast of 720 km. It receives heavy rainfall ranging from 2000 to 4000 mm mostly between the months of June to September. The climate is warm and humid almost throughout the year. The lateritic soil from Ratnagiri and Sindhudurg districts is acidic, low in fertility having low moisture retention capacity whereas medium black soil from Thane and Raigad districts is comparatively better in fertility and having more moisture retention capacity. Rice is the main crop of North Konkan Coastal Zone and as such rice based cropping system is prevailing in this region where as the fruit crops are dominating in South Konkan Coastal Zone and hence the horticulture based cropping system is followed in the South Konkan region.

3.1.1 Rainfall

The districtwise rainfall received in Konkan region of Maharashtra during June to October, 2017 is presented in Table 1.

Table 1 : Districtwise Rainfall (Received during 2017) in Konkan region of Maharashtra

Sl. No	Districts	Monthly rainfall (mm)					Total Rainfall (mm)
		June, 2017	July, 2017	August, 2017	September 2017	October, 2017	
I)	North Konkan Coastal Zone						
1.	Thane	685.9	1206.6	875.0	438.9	161.4	3367.8
2.	Raigad	751.1	1116.8	891.6	514.1	134.3	3407.9
3.	Palghar	668.1	1119.3	686.3	387.9	110.1	2971.7
II)	South Konkan Coastal Zone						
3.	Ratnagiri	912.4	1108.0	742.2	572.7	165.9	3501.2
4.	Sindhudurg	810.6	935.7	602.9	558.7	179.2	3087.1
Average		765.6	1097.3	759.6	494.5	150.2	3267.1
Normal		652.9	1154.7	741.7	349.7	114.7	3013.7
Percent increased / decreased		17.3	-5.0	2.4	41.4	30.9	8.4



3.1.2 Rainfall Distribution of South Konkan Coastal Zone

In Konkan region of Maharashtra, during the year 2016, monsoon commenced during 24th Meteorological week (11/06/2016 to 17/06/2016) and withdrawal was during 41th meteorological week (08/10/2016 to 14/10/2016). The total rainfall received was 1946.7 mm which was (-) 35.93 per cent deficient than the normal rainfall of 3038.7. During June, 2016 and July, 2016 Konkan region received 10.30 per cent higher and -52.94 per cent deficient rainfall, respectively. Whereas, during August and September, 2015, (-) 53.10 per cent deficient and (-) 37.21 per cent less rainfall as compared to normal. The North Konkan Coastal Zone *i.e.* Palghar Thane and Raigad districts received (-) 31.87, (-) 27.30 and (-) 42.61 per cent deficient rainfall, respectively during the year 2015 as compared to normal rainfall, whereas the South Konkan Coastal Zone *i.e.* Ratnagiri and Sindhudurg district received (-)34.77 and (-) 40.26 per cent deficient rainfall than normal during the year 2015.

3.1.3 Crop Condition

Rice crop was sown during 23rd Met week. Immediately after sowing of rice, Konkan region experienced light rainfall which was favourable for germination of seeds and emergence of rice and finger millet seedling. High relative humidity and low bright sunshine were recorded from 23rd MW up to 35th MW. High bright sunshine was recorded on 36th and 39th MW. No rainfall was recorded on 36th and 39th MW while heavy rainfall (64.5 to 124.4 mm) was recorded during 25th MW.

During 26th MW to 28th MW rainfall was very less which affected rice and finger millet crop nursery, scorching effect was observed an upland rice nursery. During this period farmers' were advised to apply protective irrigation for rice & finger millet nursery. Overall the transplanting period of paddy was delayed in the region due to uneven distribution of rainfall. Rainfall received during tillering stage to panicle initiation stage *i.e.* 33rd to 35th MW and 36th to 39th MW was less. Hence, there was a little effect on tillering and panicle initiation of paddy. Continuous high humidity and low sunshine hours during the July and mid-August, 2015 affected the photosynthetic efficiency of the rice crop. But overall the growth of paddy was satisfactory in the region. The transplanting of Nagli crop was completed in the 2nd fortnight of July. The sowing of Groundnut was completed between 26th and 28th MW. In case of fruit crops, sudden increase in temperatures during the first fortnight of March, 2015 resulted into immature fruit drop in mango. Overall, the crop condition during the kharif season was observed to be good.



3.1.4 Pest and Diseases

The incidence of pests of the rice i.e, Blue beetle, Rice leaf folder, Brown plant hoppers, Green leaf hoppers, Army worm, Rice grasshoppers, Crabs and diseases like Blast was observed during the period but the damage was below ETL.

In case of Mango incidence of hopper was observed from month of October to December 2015. Maximum number of mango trees showed profuse flowering from 3rd MW (15.01.2016) to 7th MW (18.02.2016). The incidence of pests viz. midge fly, thrips, shoot borer, leaf eating semiloopers, leaf miners etc. and diseases like powdery mildew, anthracnose on leaves and fruits, dieback etc. were observed on the mango trees.

In cashew crop the incidence of Tea mosquito bug, thrips, leaf miner, cashew stem and root borer, leaf webber etc. and diseases like dieback, gumosis was observed on cashew crop.

In rabi-hot weather season i.e. November onwards, incidence of hopper, aphids and thrips in vegetable nursery viz., brinjal, tomato, cabbage, chilli, knol knol etc. was observed.

3.1.5 Gramin Krishi Mausam Seva

Under Gramin Krishi Mausam Seva, District Agromet Advisory Bulletin on the basis of weather forecast received from Regional Meteorological Centre, Colaba, Mumbai was prepared and weather forecast data verified on the basis of observed weather data of the station.

The daily weather data were regularly recorded at meteorological observatory of Department of Agronomy, College of Agriculture, Dapoli and at College of Horticulture, Mulde twice in a day. From this station, weather data are regularly sent to Regional Meteorological Centre (RMC), Colaba, Mumbai and India Meteorological Department, Pune and the forecast is received on every Tuesday and Friday for next five days regularly from RMC, Mumbai. The agro-advisory bulletin is prepared in consultation with the experts from various disciplines based on the weather forecast and present situation for major crops of the season twice in a week. The bulletin is distributed among the contact farmers and concerned Agricultural Department officials. The bulletin is also disseminated to the print media, AIR Ratnagiri, District Information Officers, KVK's, Non-government organizations, Local library etc for its wide publicity. Regular farming based advisory SMS's were also sent through farmers' portal of IMD, New Delhi to more than 70,000 progressive farmers. During the period under report, 365 days forecasts were received from Regional Meteorological Centre, Colaba, Mumbai and 102 Agro-advisory bulletins were prepared and published on that basis.



3.2 Research Recommendations

3.2.1 Cinnamon – Cassia salient features

1) Rice : Ratnagiri-6

- ◆ First variety of Cassia
- ◆ Average bark yield (fresh) - 232 g/plant (dry) - 108 g/plant
- ◆ Average dry leaf yield - 230.67 g/plant
- ◆ Period of harvesting - November to May
- ◆ Volatile oil - 2.40 %
- ◆ Coumarin content- 19.9 mg/kg
- ◆ Low level of coumarin content 19.9 mg/kg and bark oil 2.40 %

2) Nutmeg - Konkan Sanyukta

- ◆ Leaf characters - Length 11.20 cm, Breadth 6.20 cm, Leaf area 40.75 cm²
- ◆ Average yield - 500 fruits/plant/year, Weight of fruit - 75.70 g, Fresh wt of nut 14.22 g and Dry wt of nut 9.20 g and oil 27%
- ◆ Days require for fruit maturity - 270 days
- ◆ Harvesting period – July to August
- ◆ Fresh wt of mace 3.90 g and oil 17.75%, Dry wt of mace 1.07 g.

3) Rice – BARCKKV-13 (Trombay-Karjat Kolam)

- ◆ Average grain yield 4.0 to 4.5 t/ha
- ◆ Dwarf stature and non-lodging, Midlate (130 to 135 days), Short slender grain type and Moderately resistant to stem borer
- ◆ This culture has recorded 18.95 per cent increased in grain yield over check Karjat 4
- ◆ High milling (73.7%), head rice recovery (67.98%) and translucent kernel type indicating superior grain quality of rice variety BARCKKV 13 with acceptable amylose content (23.09)

Farm implement developed by the university

1) Cono Weeder

Women friendly ergo refined Dr. B.S.K.K.V. cono weeder is recommended for weeding in paddy field.



3.2.2 Recommendations based on crop production technologies

A) Natural Resource Management

Soil Fertility and Crop Nutrition Management

1. It is recommended to apply higher dose of fertilizers 3000:1000:1000 g, N: P₂O₅ : K₂O along with 50 kg. FYM to above 10 year/plant for getting higher yield and B:C ratio in Alphonso mango under lateritic soil of Konkan region.
2. It is recommended to apply Konkan Annapurna Briquettes 175 kg/ha to Kharif rice for getting higher yield and economic returns due to balanced supply of nutrients throughout the crop growth period
3. For getting higher yield of cashewnut, it is recommended to apply two sprays of 0.1% CuSO₄ + 0.05% lime, one each at flowering and fruit set along with recommended dose of fertilizers in lateritic soils of konkan.

Rainfed and dryland field crops-

1. It is recommended to grow rice hybrid sahyadri-3 in kharif season by sowing the nursery during 23rd meteorological week (4th to 10th June) and transplanting 15 days old seedlings for obtaining higher yield and net returns under South Konkan conditions.
2. For obtaining higher yield from sugarcane in South Konkan region, it is recommended to use the seedlings of single bud set grown in the media comprising of coco-peat and vermi-compost in 1:1 proportion along with Acetobacter culture @ 5.00g per kg.
3. It is recommended to grow okra in Red ferrogenous Soil of Konkan region at a spacing of 120 – 45 × 15 cm in paired row under drip irrigation with plastic mulch and be irrigated daily by following the given schedule with RDF (100: 50:50) through WSF in seven equal weekly splits through drip irrigation to achieve higher productivity and economic returns.

Crop period (weeks)	Water application (Lit/m length)
1 to 5	52
6to 9	50
10 to 13	75
14 to 17	47



Integrated Farming System-

1. Sahyadri -3, Sahyadri-4, Sahyadri-5, Karjat-3, Karjat-5, Karjat-8 and Ratnagiri-3 rice hybrids/varieties are recommended to grow under organic package for getting higher yield and economic returns during Kharif season.
Groundnut varieties konkan Gaurav, TG 26 and JL 776 are recommended to grow under organic package for getting higher yield and economic returns during Rabi-hot weather season.
2. It is recommended that rice- groundnut, rice – sweet corn and rice – dolichos bean systems be grown under organic package of practices to get higher yield and economic returns from rice based cropping systems.
3. In North Konkan Coastal Zone for higher productivity and profitability from Kharif Rice- Rabi Cowpea system, it is recommended that both crops be supplied with 75 % RDF, crop residue @ 2 t and PSB @ 3.5kg ha¹ along with Glyricidia green leaf manuring @ 3 t and Azospirillum @ 3.5 kg to rice and Rhizobium @ 3-5kg ha⁻¹ to cowpea, respectively.

Micronutrients-

1. It is recommended that the application of 20 kg MgSO₄, 12.5 kg ZnSO₄ 10 kg Borax through soil and foliar spray of FeSO₄ @ 0.5% nutrients along with recommended dose of fertilizer (FYM @ 10t +100:50:100 kg NPK ha⁻¹) to get higher tuber yield and more economic returns from cassava in Konkan region.

B) Horticulture

1. For getting higher retention, yield and reducing spongy tissue per cent, spraying of solution containing combination of derivatives of L-Ceystein (N-ATCA) (10%) and Folic acid (0.2%) at 50% flowering (1 ml per liter of water), pea stage (1.5 ml/ liter), egg stage (2 ml/liter) and at 75 days after fruit set (2 ml/liter) is recommended.
2. For getting higher retention and yield in cashew, spraying of solution containing combination of derivatives of Thioproline (5.0%), Folic acid (0.1%) and Brassinolides (500PPM) at nut set (1 ml per liter of water), 15 days after 1st spray (1.5 ml/liter) and 15 days after 2nd spray (2ml/liter) is recommended.
3. It is recommended to cultivate cinnamon, nutmeg, black pepper, banana and pineapple as an intercrops under Konkan agro-climatic condition, for getting the higher yield and returns from coconut based multistoried cropping system.
4. It is recommended to grow Banana + Pineapple + Elephant foot yam as mixcrop to get early returns in young Oil Palm garden (up to 5 years) under South Konkan region.
5. To get more success and good growth of nutmeg and kokum grafts and black pepper cuttings it is recommended to use closed propagation chamber for propagation.



C) Animal and Fisheries Science

1. It is recommended that the supplementation of fresh *Azolla pinnata* @ 1.5 kg. with concentrate feed for improving growth rate of crossbred calves.
2. It is recommended to apply 2 % of buffalo dung (dry) as organic manure in mixture of sand and soil in the ratio of 1:1 as a fertilizer media under 800 lux light intensity for better lengthwise growth and biomass of aquatic plant, *Vallisneria*.
3. It is recommended that the Sword-tail seed (*Xiphophorus hellerii*) should be stocked at the rate of 150 number/ m² in a cage placed in rain-fed farm-ponds and fed at the rate of 8% of body weight having 32 % protein for better growth.
4. It is recommended to use shatavari powder at the rate of 3 % in the Fifoo feed developed by Dr. BSKKV for better growth of Guppy (*Poecilia reticulata*) fishes.
5. It is recommended to incorporate the Spirulina powder at the rate of 3 % as a feed supplement in the diet of (*Oreochromis niloticus*) for better growth.
6. It is recommended to mix 2 g/kg of dry banana powder as prebiotic with 0.5 g/ kg of any probiotic in the feed for better growth and survival of Catla fry
7. It is recommended to mix 2 g/kg of dry banana powder as prebiotic with 0.5 g/ kg of any probiotic in the feed for better growth and survival of Tilapia fingerlings
8. It is recommended to use 33% *Enteromorpha* supplemented feed @ 5% for better growth and survival of rabbit fish (*Siganus canaliculatus*) fry
9. It is recommended to use brackish water of 0 – 5 psu salinity for seed production of Tilapia in coastal areas.

D) Basic Sciences, Food Science and Technology

Plant, Animal and Fish Biotechnology-

1. Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth developed tissue culture technology recommended for micropropagation of Red banana.

Food Science and Technology-

2. It is recommended of prepare most acceptable quality ginger shrikhand having shelf life of two days at ambient atmospheric conditions and six days at refrigerated conditions, as per method developed by DBSKKV, by using mix youghurt culture of *Streptococcus thermophilus* & *Lactobacillus bulgaricus* @ 1% of original milk (w/w) and by addition of ginger juice as flavouring agent @ 5.0% (w/w) of chakka.
3. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of edible film from 15 % cassava starch is recommended.
4. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of edible film from 15% Jackfruit seed starch is recommended.
5. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for



- preparation of Soy milk fortified with cow milk (25:75), paneer cubes is recommended.
6. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of dehydrated Soy milk fortified with cow milk (25:75), paneer cubes of 50oC by microwave convection dryer is recommended.
 7. It is recommended to prepare the lemonade cashew apple spicy nectar by using 20 per cent cashew apply juice, 3 per cent lime juice and 1 per cent ginger juice with maintaining 15 OB TSS as per the process developed by Dr. BSKKV Dapoli.
 8. Suvarna variety released by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, is recommended for preparation of processed bottled mango pulp.
 9. It is recommended to use batter developed by Dr. B. S. Konkan Krishi Vidyapeeth Dapoli for preparation of less fat containing and good quality Pangasius fish fingers “Pankaj” for consumption.
 10. It is recommended to prepare most acceptable quality chhana podo, having shelf life of four days at ambient atmospheric conditions , as per method developed by DBSKKV, Dapoli from buffalo milk by addition of alphonso mango pulp @ 20 % of chhana (W/W)
 11. It is recommended to prepare most acceptable quality kalakand, having shelf life of six days at ambient atmospheric conditions and ten days at refrigerated conditions as per method developed by DBSKKV, by incorporation of kesar Mango pulp @ 7.50 % (W/W) of initial quantity of milk.
 12. It is recommended to prepare most acceptable quality mango milk pudding . having shelf life of ten days at refrigerated conditions, as per method developed by DBSKKV, by using gelatin as stabilizer @ 2.0 % and alphonso mango pulp as flavouring agent @ 15% of original milk (w/w).
 13. It is recommended to prepare most acceptable quality Pantua. having shelf life of 12 days at atmospheric conditions and 16 days at refrigerated conditions, as per method developed by DBSKKV, by incorporation of date (Phoenix dactylifera L.) paste @ 20 % of pantua mix (w/w) and soaking for a period of 5 hrs. in sugar syrup..

Plant Protection

Plant pathology-

Phytosanitation along with soil application of Trichoderma harzianum @ 250 g/plant combined with three sprays of Bordeaux mixture (1%) first sprays at the onset of monsoon, followed by two sprays at monthly interval are recommended for economical management of Phytophthora palmivora fruit drop of sapota, in Konkan region of the Maharashtra state.



Agricultural Entomology-

1. The application of recommended dose of fertilizers + azadiractin + micronutrients (Boron, Manganese, Molybdenum) through briquettes is recommended for the integrated management of coconut eriophyid mite. The briquettes should be applied @ 4.5 kg/palm/year in three splits in the months of June, October and February.
2. For management of mango hopper it is recommended to spray buprofezin 25SC @ 0.05% (2ml/lit) at the time of third spray in the University recommended spray schedule.
3. For management of cashew apply and nut borer it is recommended to spray (0.05%) of Dichlorvos 76 EC 10ml/10lit of water after the initiation of infestation.
4. For the management of rice stem borer and leaf folder, two applications of granular insecticides Cartap hydrochloride 4 G @ 18.75 kg per ha are recommended. The first application be given in the nursery 2-3 days before transplanting followed by second application at 30-35 days transplanting or as per the requirement.

E) Agril. Engineering

Agril Processing Engineering-(Farm Structure and EOS)

1. The Process Technology for preparation of “KKV Crisp” using Twin Screw Extruder from maize, rice and horse gram in the proportion of 50:30:20 is recommended.
2. DBSKKV developed 'Bamboo Kutir' technology is recommended for Agro Tourism.
3. Dr. B. S. K. K. V. Developed combine unit of carbonization and liquefaction of biomass is recommended to produce biomass charcoal and crude bio-oil.

Soil and water conservation Engineering-

4. The DBSKKV Developed low cost real time soil moisture sensor based irrigation controller is recommended for irrigation of various crops.
5. It is recommended to irrigate the shallow and deep rooted crops in lateritic sandy clay loam soils of konkan region by installing subsurface lateral at 15 to 30 depth according to crop root zone depth.

Farm Machinery and Power-

1. Indirect method of predicting oxygen consumption rate from the calibration charts is recommended to use (with ± 10 per cent error) The following equations are recommended to predict oxygen consumption rate (VO_2) From heart rate for different age groups of male and female workers of Dapoli region.



Age group Years	Equation	Correlation coefficient (r value)	Regression Coefficient (R ²)
Male			
18-30	OCR=0.019HR-1.2788	0.91	0.83
30-40	OCR=0.0195HR-1.2814	0.90	0.81
40-50	OCR=0.0208HR-1.4861	0.95	0.90
Female			
18-30	OCR=0.0123HR-0.8443	0.93	0.86
30-40	OCR=0.0125HR-0.8724	0.93	0.86
40-50	OCR=0.0122HR-0.8386	0.90	0.81

OCR-Oxygen Consumption Rate

HR- Heart Rate

F) Social Sciences

Agril. Economics-

1. Mango growers apply plant protection chemical indiscriminately and incur extra expenditure of Rs. 5718/ha. It is recommended to educate mango growers to follow plant protection schedule of the University through extension agencies for cost minimization and reduce negative externalities of chemicals.
2. A) In Konkan region the post-harvest losses in mango estimated to Rs. 1100/- crores. Hence. It is recommended to set up mechanical post-harvest unit for mango at tehsil places.
B) In South Konkan region regulated market is existed for Ratnagiri and Sindhudurg district. However considering increase in the area under mango in these two districts it is recommended to establish market yard for mango under APMC in each tehsil.
C) It is recommended to train the farmers though extension agencies regarding changes in post-harvest handling and marketing management in mango.
3. After 7 years if rejuvenation of old and senile mango orchards in South Konkan region, per hectare incremental yield was 29.31 q. and incremental net returns were Rs. 53,189/- Similarly, per hectare saving in expenditure on labour of spraying and harvesting of fruits was 32.10 per cent. Therefore, it is recommended that mango growers in producing area be trained by extension agencies to adopt rejuvenation technology of mango orchards of DBSKKV, Dapoli for higher yield and gross income.





4. EXTENSION EDUCATION



A separate Directorate was established at the University headquarters during 1981 to undertake the work of Extension Education. The Directorate is headed by Director of Extension Education. He is assisted by one Extension Agronomist and two Subject Matter Specialists, one from Fisheries science and another from Agril. Entomology discipline.

Similarly, with the financial assistance from the ICAR, New Delhi, Agriculture Technology Information Centre has been established at the headquarter during 1999. The Centre is headed by Manager and he is supported by Jr. Research Assistants, Sr. Artist and Photographer. The Centre works on single window system wherein, an access to the technologies generated by the University is made available to the visitors; technical guidance is made available to the needy farmers, and the technology products of the University are made available for purchase. On similar lines the University has started mini ATIC at the holy place 'Ganapatipule' in Ratnagiri tahsil. This unit is managed by an Agriculture Assistant.

ICAR, New Delhi has also sanctioned two Krishi Vigyan Kendras to the University, one at Deodhe-Lanja (Ratnagiri) and another at Killa-Roha (Raigad) each one is headed by Programme Coordinator and supported by different Subject Matter Specialists and Programme Assistants. These KVKs are engaged in conducting of OFTs, FLDs for technology dissemination. They also conduct vocational training classes for farmers, farm women and rural youth to improve their competency and in-service training to Government officials. Additional two KVKs, one at Kosbad hill (Thane) and another at Kirlos (Sindhudurg) managed by NGOs are also affiliated to the University.

Apart from this, all the four faculties of the University organize extension education programmes. Under the faculty of Agriculture, College of Agriculture, Dapoli has formed College Development Block. Extension Training Officer under the guidance of Head, Department of Extension Education undertakes extension activities in the Block. He is assisted by Agriculture Assistants. Extension programmes in Fisheries faculty are organized by Department of Fisheries Extension under the guidance of Associate Dean, College of Fisheries. Similarly, extension activities under Agricultural Engineering faculty are organized under the guidance of Associate Dean of the College. In addition to this, Scientist Extension Education at Regional Agricultural Research Station, Karjat and Extension Education Officer working at Regional Fruit Research Station, Vengurle are looking after extension activities of respective region.



4.1 Monthly District Workshops

In all 20 Monthly District Workshops for Ratnagiri, Raigad, Sindhudurg and Palghar districts were organized during the reporting year.

4.2 Diagnostic team visits

Diagnostic team of the University visited 148 villages from five districts of Konkan region and provided consultancy as per the problems in the field condition.

4.3 Training Programmes

4.3.1 Refresher Trainings for Govt. Officials

In all 22 training programmes were organized for the Government officials and field functionaries from Department of Agriculture, Govt. of Maharashtra by the Directorate of Extension Education. These programmes were attended by 935 officials and field functionaries from Konkan region.

4.3.2 Vocational trainings

A total 29 vocational training programmes on different agriculture and allied subjects were organized. Total 613 farmers had taken advantage of these programmes.

4.3.3 Farmers' Trainings

The Directorate of Extension Education with the help of different research stations, KVKs and Constituent Colleges organised 167 training programmes along with demonstrations which were beneficial for 5271 farmers.

4.4 Farmers' Rallies

On the basis of location specific problems, needs and new technology developed by the University 73 farmers' rallies were organized in the region. These rallies were attended by 8110 farmers, farm women and rural youth.

4.5 Farmers-Scientist Forum

The University has established crop wise Farmers-Scientists Forums for effective and speedy transfer of technology. In all 17 meetings of the forums were arranged during the year to solve the location specific problems and to organize need based extension activities.

4.6 Engineers Day

The Engineer Day was celebrated in the College of Agril. Engineering and Technology, Dapoli on an eve of birth anniversary of Bharat Ratna, Sir Vishweswarayya. All Heads, Professors and Faculty were participated along with students

4.7 Group Discussion

In all, 58 group discussions benefiting 684 farmers from the region were arranged during the reporting year.

4.8 Method Demonstration

During the year under report, 384 method demonstrations of improved technology were arranged on the farmers' fields by KVKs, research stations, and Colleges. This activity benefitted 4086 farmers.



4.9 Front Line Demonstrations

During the reporting period, for speedy transfer of technology and adoption by the farmers 450 Front Line Demonstrations of new and improved varieties of cereals, oilseeds, pulses, etc. and also demonstrations of new tools and implements were arranged. Impact of these demonstrations shown during field day programmes.

4.10 Workshops

In all 28 workshops were organized in Konkan region during the reporting year which were benefitted by 4332 scientist and officers

4.11 Agril. Exhibition for Farmer

Total 25 Agril. Exhibition were conducted at Interstate, state and district level by the University in which 2,52,399 farmers were benefitted by the exhibition.

4.12 CROPSAP and HORTSAP training Programme

Under the state sponsored CROPSAP project on rice the University and Department of Agriculture, Govt. of Maharashtra jointly organized two training programmes on 8-9 November 2017 for 154 trainees.

4.13 MAGOVA Programme

On the occasion of the University Foundation day 18th May, 2017 photographic exhibition of various research and extension programmes conducted during previous year was organized in the University.

4.14 Publicity of the University programmes

Wide publicity was given to the events like farmers rallies, conferences, workshops, group discussions, agriculture exhibitions and other programmes organized by various research stations, KVKs, and Colleges through mass media. In all, total 1895 news articles were published through daily newspapers.

4.15 Tree Planting Programme

University has undertaken tree plantation programme on the occasion of Agriculture Day in collaboration with Forest Department of Maharashtra state. During the report period, the University planted 15 thousand grafts/plants in various farms of the University.

4.16 AIR and Doordarshan Programmes

During the report period, 19 programmes of Akashwani (Ratnagiri, Pune and Mumbai center) and 25 programmes of Doordarshan at Worli were broadcasted by the University scientist.

4.17 Visits to the University

During the reporting year, 1,92,539 farmers, dignitaries, extension workers, govt. officials and students visited the University to get acquainted with the technologies..



4.18 Sale of publication of technology and input

University earned Rs. 21.00 lakhs revenue receipts through the sale of Agril. Implements, seed material and the publications of agril. Technologies during the report period through the ATIC center counter.

4.19 Dignitaries visited the University

- ◆ Hon. Shri. Dipakji Kesarkar, State Home Minister (Rural), Finance and Planning, M.S.
- ◆ Hon. Shri. Ganesh Ghorpade, Registrar, MPKV, Rahuri.
- ◆ Hon. Dr. M.B. Chetti, ADG (HRD), ICAR, New Delhi
- ◆ Hon. Dr. P.S. Pande, ADG (Edn.), ICAR, New Delhi
- ◆ Dr. Sunil Thatte, Chiplun
- ◆ Prof. R. L. Ravikumar, Head, Department of Biotechnology Center, UAS, Bangalore
- ◆ Dr. R. S. Katagari, Prof. and Head, Department of Biotechnology Center, UAS, Dharwad
- ◆ Shri. Salunkhe, Rajbhavan, Mumbai
- ◆ Hon. Shri. Eknath Dhavale, Secretary, Soil and Water Conservation, M.S.
- ◆ Hon. Shri. Ravindraji Waykar, Minister of State and Guardian Minister, Ratnagiri district.
- ◆ Hon. Shri. Ramdasji Kadam, Minister of Environment, M.S.
- ◆ Hon. Shri. Sadashivji Khot, Minister of State, Agriculture, M.S.
- ◆ Hon. Shri. Dipakji Kesarkar, State Home Minister (Rural), Finance and Planning, M.S.
- ◆ Hon. Shri. Sanjayrao Kadam, Member of Executive Council, MLA, Dapoli
- ◆ Hon. Mrs. Supriyatai Sule, Member of Parliament, Delhi
- ◆ Hon. Shri. Shekharji Nikam, Chairman, Sahyadri Education Institute, Sawarde
- ◆ Shri. Deepak Mane, Representative of Hon. Governor, M.S.
- ◆ Shrimati. Utkarsha Jadhav, Mayor, Dapoli Nagar Panchayat
- ◆ Shri. Abhinav Goyal, Chief Executive Officer, Dapoli Nagar Panchayat
- ◆ Hon. Shri. Pandurangji Fundkar, Minister of Agriculture, M.S.
- ◆ Hon. Shir. Narendrasingh Rathore, Deputy Director General (Education), ICAR, New Delhi
- ◆ Hon. Shri. Sanjayji Kelkar, Member of Executive Council, MLA, Thane
- ◆ Hon. Shri. Sanjayrao Kadam, Member of Executive Council, MLA, Dapoli
- ◆ Shri. Sanchidra Pratap Singh, Agril. Commissioner, Pune



5. UNIVERSITY ADMINISTRATION

5.1 University Officers

As per Maharashtra Agricultural Universities Act, 1983 (14) and Statute, 1990 following are the Executive, Academic and Other Officers of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli during the year 2017-18.

A) Executive Officers

- 1) Chancellor :- Hon.ble. C. Vidyasagar Rao
- 2) Pro-Chancellor :- Hon.ble. Shri. Pandurang Fundkar
- 3) Vice-Chancellor :- Hon.ble. Dr. Tapas Bhattacharya

B) Academic Officers

- 1) Director of Instructions & Dean (Agri.) :- Dr. R. G. Burte
(Up to dated 16/07/2017)
Dr.S.S.Narkhede
(From dated 17/07/2017)
- 2) Director of Research :- Dr. U. V. Mahadkar
(Additional charge up to 16/07/2017)
Dr. P.M.haldankar
(From 16/07/2017)
- 3) Director of Extension Education :- Dr. S. G. Bhave
- 4) Associate Dean, College of Agriculture, Dapoli :- Dr. S. A. Chavan
(Up to 16/07/2017)
Dr. U.V.Mahadkar
(from 17/07/2017)
- 5) Associate Dean, C.A.E.T., Dapoli (Additional Charge) :- Dr. Y.P.Khendetod
- 6) Associate Dean, College of Fisheries, Shirgaon, Ratnagiri. :- Dr. R. Pai
(Up to 31/10/2017)
Dr. Hukumsing Dhakar
(From 01/11/2017)



C) Heads of the Departments and Scientists

- | | | |
|--|----|--|
| 1) Head, Deptt. of Agril.Chem & Soil Science | :- | Dr. S. S. Prabhudesai
(Additional charge up to 31/08/2017)
Dr. K.D.Patil
(from 01/09/2017) |
| 2) Head, Deptt. of Horticulture. | :- | Dr. B.R.Salvi |
| 3) Head, Deptt. of Plant Pathology. | :- | Dr. V. S. Pande
(Additional charge from 30/09/2017)
Dr.(Smt.) P.D.Patil
(Additional charge up to 27/11/2017)
Dr. A.P.Suryava nvshi
(Up to 28/11/2017) |
| 4) Head, Deptt. of Agril.Engineering. | :- | Dr. Y. P. Khandetod
(Up to 12/11/2017)
Dr. A.G.Mohod
(From 13/11/2017) |
| 5) Head, Deptt. of Agril.Extension. | :- | Dr. P. A. Sawant
Dr.V.G.Patil |
| 6) Head, Deptt. of Agril.Entomology. | :- | Dr.A.L. Narangalkar (Additional charge) |
| 7) Head, Deptt. of Agril.Economics. | :- | Dr. J. M. Talathi (Additional charge) |
| 8) Head, Deptt. of Ani.Hus.& Dairy Science | :- | Dr. B. G. Desai (Additional charge) |
| 9) Head, Deptt. of Agronomy | :- | Dr. U. V. Mahadkar (Additional charge)
Dr. S. A. Chavan (Additional charge) |
| 10) Head, Deptt. of Agril. Botany | :- | Dr. B. L. Thaware |
| 11) Associate Director of Research, R.A.R.S., Karjat | :- | Dr. L. S. Chavan (Additional charge) |
| 12) Associate Director of Research, R.F.R.S., Vengurla | :- | Dr. P.C.Haladvanekar (Additional charge) |

D) Other Officers

- | | | |
|---|----|---|
| 1) Registrar | :- | Shri. J. V. Deshpande
(Additional Charge up to 25/05/2017) |
| 2) Comptroller | :- | Shri. A. S. Pawar (Additional Charge) |
| 3) University Engineer | :- | Shri.R.P.Dhumale |
| 4) Student's Welfare Officer | :- | Shri. N. A. Wagale |
| 5) Deputy Registrar (Exam) | :- | Shri. A.S.Pawar |
| 6) Assistant Librarian | :- | Shri. D. B. Khupte |
| 7) Assistant Registrar (Admn-I) | :- | Shri. U.B. Gimhavanekar |
| 8) Assistant Registrar (II) | :- | Shri. H. S. Kamat (Additional charge) |
| 9) Assistant Comptroller (I) | :- | Shri.S.P.Dusane |
| 10) Assistant Comptroller (II) | :- | Shri.A.R.Markad (Additional charge) |
| 11) Pay & Accounts Officer (I), P.A.U. | :- | Smti. Aparna Jois (Additional charge) |
| 12) P.A. to Vice -Chancellor | :- | Shri. S. P. Dusane |
| 13) Assistant Comptroller, College of Agril., Dapoli. | :- | Smt. M. B. Salvi |
| 14) Assistant Registrar, C.O.A., Dapoli. | :- | Shri. M. G. Dolas |
| 15) Assistant Registrar, C.A.E.T., Dapoli | :- | Shri. S. K. Ambekar |
| 16) Assistant Registrar, C.O.F, Ratnagiri | :- | Smti. S. C. Halkurki |



5.2 University Authorities

Time to time meetings of various bodies of University Authorities such as Executive Council, Academic Council, Agri. Research Council, Extension Council, Faculties, Board of Studies were conducted during the period under report.

A. Executive Council :

In all, 3 regular meetings of Executive Council were conducted during the period under report.

B. Academic Council :

Three meetings of Academic Council were conducted during the period under report.

C) Agril. Research Council

One meeting of Agril. Research Council was conducted during the period under report.

D) Extension Council

One meeting of Extension Council was conducted during the period under report.

E) Educational Faculties

Three different faculties such as Agriculture, Fisheries and Agricultural Engineering were functioning during the period under report.

F) Board of Studies

Regular meetings of various Board of studies under different faculties were conducted during the period under report.

5.3 Appointment of Officers

- 1) Through Maharashtra Council of Agricultural Education & Research, Pune : Nil
- 2) Through University : (By Promotion & Nomination) :
 - i) By Promotion - 42
 - ii) By Nomination - 81



1) Officers (Superannuation)

1)	Dr. V. R. Joshi, Research Officer	:-	30/06/2017
2)	Dr. S. K. Godase, Associate Professor	:-	31/05/2017
3)	Shri. P. A. Yadav, Deputy Registrar	:-	30/04/2017
4)	Dr. Smt. S.R. Vichare, Associate Professor	:-	31/05/2017
5)	Dr. V. S. Pande, Associate Professor	:-	30/09/2017
6)	Dr. R. G. Burte, Head, Deptt. Of AHDS	:-	31/12/2017
7)	Dr. R. K. Pai, Associate Dean	:-	31/10/2017
8)	Dr. S. S. Prabhudesai, Professor	:-	31/08/2017
9)	Shri. R. D. Sawant, JRA	:-	15/02/2018
10)	Dr. Smt. R. S. Patil, Associate Professor	:-	31/03/2018
11)	Dr. D. T. Kolekar, Assistant Professor	:-	31/03/2018
12)	Shri. P.S. Golvankar, Assistant Registrar	:-	28/02/2018

2) Officers (Voluntarily) : Nil

5.5 University Staff

Information regarding number of posts sanctioned, filled-in and reserved posts for the period ending 31st March, 2018

Posts	No. of Sanctioned posts	Posts filled-in category-wise							Va-cant posts
		SC	ST	DT/NT	SBC	OBC	Open	Total	
i	ii	iii	iv	v	vi	vii	viii	ix	x
A) Executive Officer									
Vice-Chancellor	1	-	-	-	-	-	1	1	-
B) Academic Officers									
Dean (Agriculture)	1	-	-	-	-	-	1	1	-
Director of Research	1	-	-	-	-	-	1	1	-
Director of Extension Education	1	-	-	-	-	-	1	1	-
Heads of the Department	10	-	-	-	-	-	7	7	3
Associate Director of Research	2	-	-	-	-	-	-	-	2
Deputy Director of Research	3	-	-	-	-	-	3	3	-
Assistant Librarian	4	1	-	-	-	-	1	2	2



Posts	No. of Sanctioned posts	Posts filled-in category-wise							Total	Va- cant posts
		SC	ST	DT/ NT	SBC	OBC	Open			
i	ii	iii	iv	v	vi	vii	viii	ix	x	
C) Other Officers										
Registrar	1	-	-	-	-	-	-	-	1	
Comptroller	1	-	-	-	-	-	-	-	1	
Students Welfare Officer	1	-	-	-	-	-	1	1	-	
University Engineer	1	-	-	-	-	-	1	1	-	
Deputy Registrar (Exam.)	1	-	-	-	-	-	1	1	-	
Asstt.Registrar/Asstt.Comptroller	11	1	-	1	-	-	5	7	4	
Sports Officer	2	-	-	-	-	-	1	1	1	
Physical Training Instructor	3	1	-	-	-	-	1	2	1	
P.A. to Vice-Chancellor	1	-	-	-	-	-	1	1	-	
Security Officer	2	1	-	-	-	-	1	2	-	
Medical Officer	1	-	-	-	-	-	-	-	1	
Assistant Engineer	3	1	-	-	-	-	2	3	-	
Total (A+B+C) :-	51	5	-	1	-	-	29	35	16	
D) Academic Staff Faculty of Agriculture										
Associate Dean (Agri./PGI-PHM/Hort.)	3	-	-	-	-	-	3	3	-	
Professor & equivalent	18	-	-	-	-	-	16	16	2	
Asso. Professor & equivalent	72	10	-	2	-	2	32	46	26	
Asstt. Professor & equivalent	149	16	8	9	-	7	65	105	44	
Agril.Officer/Sr.Res.Asstt./Extn. Officer/Tech.Officer/Sr.Stat.Asstt. / Sr.Tech.Officer /Vet. Officer/ Jr.Vet. Officer	35	5	3	3	-	4	21	36	-	
Agril.Supervisor/Jr.Res.Asstt.	38	6	3	4	-	4	15	32	6	
Total (D) :-	315	37	14	18	-	17	152	238	78	
E) Academic Staff Faculty of Fisheries Sc.										
Associate Dean	1	-	-	-	-	-	-	-	1	
Professor & equivalent	10	-	-	-	-	-	5	5	5	
Asso. Professor & equivalent	15	1	-	-	-	-	12	11	4	
Asstt. Professor & equivalent	43	7	1	1	1	3	20	33	10	
Biologist	6	1	-	1	-	-	4	6	-	
Gear Technician/Jr.Res.Asstt.	3	1	-	-	-	-	2	2	1	
Total (E) :-	78	10	1	2	1	3	41	58	20	



Posts	No. of Sanctioned posts	Posts filled-in category-wise							Va-cant posts
		SC	ST	DT/NT	SBC	OBC	Open	Total	
i	ii	iii	iv	v	vi	vii	viii	ix	x
F) Academic Staff College of Agril. Engineering & Technology, Dapoli									
Associate Dean	1	-	-	-	-	-	1	1	-
Professor & equivalent	7	-	-	-	-	-	6	6	1
Asso. Professor & equivalent	12	-	-	-	-	-	7	7	5
Asstt. Professor & equivalent	24	-	1	-	-	-	17	18	6
Senior Research Assistant (CAET)	4	-	1	1	-	-	1	3	1
Total (F) :-	48	-	2	1	-	-	32	35	13
G) Krishi Vigyan Kendra									
Assistant	2	1	-	-	-	1	-	2	-
Steno Typist	2	-	-	-	-	1	-	1	1
Driver	4	-	-	1	-	-	3	4	-
Mali	2	-	-	-	-	-	2	2	-
Animal Attendant	2	2	-	-	-	-	-	2	-
Total (G) :-	12	3	-	1	-	2	5	11	1
H) Clerical Staff									
Class-III staff	453	67	26	33	6	39	198	369	84
Class-IV staff	783	91	47	70	12	116	304	640	143
Total (G) :-	1236	158	73	103	18	155	502	1009	227
Total (A+B+C+D+E+F+G+H) :-	1740	213	90	126	19	177	761	1386	355

5.6 Financial status of the University

During the financial year 2017-2018 the grants of Rs. 10564.99 lakhs have been received from the Government of Maharashtra under Non-Plan sector. From these grants the expenditure of Rs. 10612.52 lakhs has been incurred. Similarly the grants of Rs. 1000.00 lakhs have been received under Plan sector against which the expenditure of Rs. 1031.34 lakhs has been incurred.

The grants of Rs. 1867.25 lakhs have been received from the ICAR, New Delhi and Government of India from which the expenditure of Rs. 1696.91 lakhs has been incurred.

The abstract of the grants received, expenditure incurred during the financial year 2017-18 is as under.



Sr. No.	Particulars	Sanctioned/ Received Grants (Rs.In lakhs)	Actual Expenditure from Govt. grants (Rs.In lakhs)
A)	Non-Plan Schemes		
1)	01 Crop Husbandry	9115.26	9114.03
2)	03 Animal Husbandry	308.24	312.14
3)	05 Fisheries	1141.49	1186.35
	Total - A	10564.99	10612.52
B)	Plan Schemes		
4)	01 Crop Husbandry	1000.00	1031.34
C)	ICAR,New Delhi / GOI/Adhoc Scheme	1867.25	1696.91
D)	Revenue Receipts/ Expenditure	1183.58	1321.80
	Grand Total (A to D)	14615.82	14662.57

5.7. Creations of basis infrastructure facilities

5.7.1 Non Plan Schemes

1. Government has sanctioned a grant-in-aid of Rs. 103.81 lakhs during the financial year 2016-17 for minor building repairs and renovations works for the Faculty of Agriculture under the head 01 Agriculture Building maintenance. This office utilized the full grants received from Government on various works such as repairs and renovation of office building and residential quarters at main campus and research stations, repairs and renovation of roads, repairs to guest houses at various research stations, repairs to toilet blocks, re-electrification of different buildings. Water proofing treatment to various buildings, rewinding submersible pumps at various research stations under this University etc. during the financial year under report.
2. The grant-in-aid of Rs. 5.85 lakhs was received during the year 2016-17 under the head 03 Animal husbandry Building Maintenance. The work of repairs to quarters, young bull shed and hester shed, providing retaining wall in front side of office building, repairing to in-charge quarters and repairing to main office building. Providing plinth protection, weather shed to main office building at Cattle Breeding Farm Nileli were under taken and an expenditure of Rs. 5.20 lakh was incurred for the above works during the financial year 2016-17.



3. The grant-in-aid of Rs. 9.90 lakhs was received for faculty of fisheries under the head 05 fish Building maintenance. The various repairs works, water proofing works, repairs to water supply line, expansion joints, water storage tank, providing external painting and minor repairs etc. were completed by spending an amount of Rs. 9.90 lakhs during the financial year 2016-17.

5.7.2 Plan Schemes

1. Construction of Works under 'Establishment of College of Horticulture, Mulde, Dist-Sindhudurg

During the said financial year 700.00 lakhs grant was received from the Government of Maharashtra. Accordingly the work construction of Boys and Girls Hostel Building, construction of laboratory building is hampered. An amount of Rs. 386.15 lakhs were incurred during the financial year 2016-17 for the above mentioned purpose. The remaining building will be completed as and when sufficient grants are received.

2. Construction of works under Establishment of PGI-PHM Roha

During the financial year Rs. 501.50 lakh grants was received from Govt. of Maharashtra under which work like construction of main administrative building, construction of RCC Nala and other allied work is in progress. An amount of Rs. 443.33 lakhs was incurred during the financial year 2016-17 for the above mentioned purpose. The remaining building will be completed as and when grants are received.

3. Construction of works under taken for the scheme establishment of Fisheries Engineering Diploma course of three year at Ratnagiri.

During the financial year, Rs. 390.47 lakhs were received from the Govt. of Maharashtra towards various construction works under the said scheme. Under this scheme various works like construction Educational building, constructions of box type culvert near entrance gate, construction of Boys and Girls Hostel buildings A,B,C and D type water drain, construction was undertaken and for this an expenditure of Rs. 288.92 lakhs was incurred during the said financial year.

4. Construction of building for College of Agriculture Engineering and Technology, Dapoli

The work of construction of administration building for College of Agriculture Engineering and Technology was completed in all respect during the financial year 2010-11. The work for construction of Laboratory Building was also completed during the financial year 2015-16. The work of minor modifications, electrification work will is completed during the first half of the next financial year. An expenditure of Rs. 18.49 lakhs was made during the said financial year.



5. Construction of Compound wall for protection of the Agril. Universities in Maharashtra

During the financial year a total sum of Rs. 06.57 lakhs was received under this head. During this year the work for construction of compound wall at Khar Land Research Station, Panvel behind NARP quarters was undertaken for which an amount Rs. 04.70 lakhs was incurred during the said financial year.

5.7.3 ICAR Schemes

1. Various maintenance /repairs/ renovation works under SAUs.

An amount of Rs. 135.00 lakhs was received for various repairs/ renovations/ modernization of the University from ICAR. 1.3 out of which Rs. 15.96 lakh were utilized for various maintenance work/renovation work/ modernization works of various colleges, Hostel etc. under this University.

5.7.4. Rashtriya Krishi Vikas Yojana

1. College of Agril. Engineering and Technology (CAET- FMP)

An amount of Rs. 04.01 lakhs was received under this head. A total of Rs. 04.01 lakhs was utilized for BBM carpet and seal coat farm machinery, PCC and Cement concrete flooring ,Repairs for inspection unit for FMP was also undertaken.

2. Rain water harvesting through lined ponds (CAET-SWCE)

An amount of Rs. 47.29 lakhs was received under this head. A total of Rs. 35.19 lakhs was utilized for Construction of farm ponds under RKVY at Dapoli, Pangari, Kudavale, and Deodhe, Lanja.

3. Strengthening of fishries extension by establishment of fishries training cum information tech. centre at College of Fisheries, Shirgaon, Ratnagiri

An amount of Rs. 238.78 lakhs was received under this head. A total of Rs. 160.76 lakhs was utilized for Construction of fish training cum information center at College of Fisheries, Shirgaon, Ratnagiri.

4. Estblishment of Circular Hatchery for Carp Seed Production

An amount of Rs. 39.69 lakhs was received under this head. A total of Rs. 37.79 lakhs was utilized for construction of Circular Hatchery at Mulde and renovation of pond at Mulde.

5. Production of different Biofertilizers

An amount of Rs. 190.57 lakhs was received under this head. A total of Rs. 1.48 lakhs was utilized for Biofertilizer building architect fee and erecting wire fencing and gate to pathology farm at Dapoli.



6. Production of Konkan kanyal Goat

An amount of Rs.03.50 lakhs was received under this head. for construction of cattle shed no.3 into goat shed at Dairy Farm, construction of running at Nileli, conversion of Cattle shed into Goat shed at Asond block, Central Experimentation Station, Wakavali.

5.7.5. District Planning and Development Committee (DPDC), Sindhudurg

The grants Rs.03.00 lakh was received under this head for various Constructions of Hall for MAP unit at Vengurla.

For various construction of ornamental fish breeding and rearing unit at Mulde the grants of Rs.40.89 lakh was received from DPDC, Sindhudurg. Total expenditure was 20.09 lakh incurred during the reporting period.

5.7.6 Revenue Receipt for RFRS, Vengurle

The grants Rs. 16.78 lakh was received under this head for various providing electrical renovation, air condition unit, false ceiling, wall paneling, and veterified tiles at main building at RFRS, Vengurla. Total expenditure was 16.78 incurred during the said financial year.





ANNEXURE - I

Seed Production of different crop varieties during the year 2017-18

Sr.No.	Crop	Production (in qtl.)
1.	Paddy	
	Nucleus Seed	26.00
	Breeder Seed	326.20
	Foundation Seed	307.24
	Truthful Seed	2080.7
	Total	2739.84
2.	Nagli	85.00
3.	Oilseed	210.00
4.	Pulses	382.00
5.	Vegetable Seed/ Tuber crops	42.00
	Total	719.00
	Sub Total	3458.84
	Cashewnut (qtl)	1050.00
7.	Coconut (Nos.)	10000000

ANNEXURE - II

Planting material production during the year 2017-18

Sr.No.	Crop	Production (in lakh)
1.	Mango	2.97
2.	Cashewnut	4.50
3.	Coconut	1.40
4.	Sapota	0.38
5.	Aonla	0.35
6.	Kokum	0.37
7.	Lemon	0.17
8.	Jamun	0.60
9.	Spices	0.90
10.	Arecanut	0.51
11.	Forest and Medicinal plants	2.60
12.	Other (flower seedling & other seedling)	2.00
13.	Fodder Setts	5.00
	Total	21.75



ANNEXURE - III

Production and sale of different tools/implements during the year 2017-18

Sr. No.	Description	Sale (in numbers)
1.	Vaibhav sickle	2153
2.	Swastik groundnut hoe	01
3.	Atul fruit harvester	347
4.	Pankaj paddy puddler	01
5.	Nutan mango harvester	20
6.	Naveen mango harvester	05
7.	Amar loranthus cutter	121
8.	Ankur toothed spade	154
9.	Sulabh contour marker	0
10.	Dryland weeder	15
11.	CAET Cashew cutter	18
12.	Coconut dehusker	226
13.	Japanese Weeder-130 mm	02
14.	Cono weeder-100 mm	03
15.	Cono weeder-130 mm	29
16.	Vipul cashewapple juice extractor	0
17.	Hand operated arecanut dehusker	01
18.	Green cashewnut cutter	25
19.	Chain conveyor type paddy thresher	0
20.	Arecanut scarifier	0
21.	TNAU Coconut climber	01
22.	Other (Fabrication and structures)	15
Total		3137



ANNEXURE - IV

Testing of different tools/implements during the year 2017-18

Sl.No.	Name of the machine tested	Name of the manufacturer
01	Manually Operated Cono Weeder	M/s. Benson Agro Engineering, Nashik
02	Manually Operated Coconut Dehusker	M/s. Benson Agro Engineering, Nashik
03	2 Hp, Single Phase Electric Motor Operated Chaff Cutter -Table Model (Horizontal	Shamdatta Krishi Udyog, Patan
04	Tractor Operated Rotavator (Ks 150glb00)	M/s. Maharashtra Agro Industries Development Corporation Ltd.,Agricultural Engineering Works, , Chinchwad, Pune
05	Tractor Operated Rotavator (Ms 175glb00)	M/s. Maharashtra Agro Industries Development Corporation Ltd.,Agricultural Engineering Works, , Chinchwad, Pune
06	Pedal Operated Paddy Thresher	Mhatre Engineering Works, Thane
07	Power Operated Chaff Cutter- 2 HP With Electric Motor (Gokul Improved)	M/s. Shrikrupa Enterprises, Kolhapur
08	Power Operated Chaff Cutter- 3 HP With Electric Motor (Gokul Improved)	M/s. Shrikrupa Enterprises, Kolhapur
09	Chaff Cutter (Power Operated)	M/S Shivshakti Engineering Works, Mangle, Tal- Shirala
10	Pedal Operated Paddy Thresher	M/s. Benson Agro Engineering Nashik
11	Hydraulic Power Sprayer Pump	M/s. Biospark Aqua Technologies Hyderabad-
12	Two Bottom Reversible Mb Plough (Bm 04,35-50hp)	M/s. Abhimanans Agro Equipments LLP Kolhapur
13	Two Bottom Reversible Mb Plough (Bm 04,55-65hp)	M/s. Abhimanans Agro Equipments LLP Kolhapur
14	Tractor Operated Two Bottom Ridger	Shamdatta Krishi Udyog Patan
15	2 HP Chaff Cutter	M/s. R.K.Auto Spares Adamapur, Kolhapur
16	Battery Cum Hand Operated Knapsack Sprayer (Dynamic)	M/s. Dynamic Marketing Thane
17	Battery Operated Knapsack Sprayer (Fortune Sprayer)	Fortune Agri Equipment Pvt. Ltd, Pune
18	Battery Operated Hand Operated Knapsack Sprayer (Fortune Sprayer)	Fortune Agri Equipment Pvt. Ltd, Pune
19	Battery Operated Knapsack Sprayer (Fortune Sprayer-20 L	Fortune Agri Equipment Pvt. Ltd, Pune
20	2 Hp Single Phase Electric Motor Operated Mini Heavy Duty Chaff Cutter	M/s. Shrikrupa Industries Pvt. Ltd, Kolhapur



14th Interuniversity cultural meet at VNMKV, Parbhani during 5th to 9th November 2017



18th Agriunifest organised at Tirupati Andhrapradesh during 12th to 16th February 2018



12th Inter university Research Competition Avishkar organized at MPKV, Rahuri during 16th to 18th January 2018



37th Convocation function of the university



Organisation of 22nd Extension Council of the university



Visit of Hon.Ravindraji Waiker,Guardian Minister Ratnagiri District

Visit of Hon.Sadabhau Khot, State Agriculture Minister Govt. of Maharashtra

