

**2021-22**

# **ANNUAL REPORT**



**COLLEGE OF HORTICULTURE & FORESTRY**

(Agriculture University, Kota)  
Jhalarapatan- 326 023, Jhalawar (Rajasthan)







# Annual Report-2021-22

## Editorial Committee

Dr. I. B. Maurya  
Dr. Anchal Sharma  
Dr. Hemraj Chhipa  
Dr. Anil Kumar Gupta



## AGRICULTURE UNIVERSITY, KOTA

Borkhera, Baran Road, Kota 324 001 (Raj.)



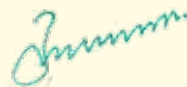
**Dr. Abhay Kumar Vyas**  
Hon'ble' Vice Chancellor

# FOREWORD

It gives me a sense of pleasure to see the Annual Report of College of Horticulture & Forestry, Jhalawar for the academic session 2021-2022. The report reflects the expression of our sincere efforts at sustaining and enhancing quality irrespective of difficult Covid-19 pandemic situation. The report provides a broad picture of the overall programme and activities of the institution towards fulfilling our goals in tune with our Vision and Mission. The role of colleges and educational bodies is most important and vital in developing a vibrant educational ecosystem.

The college has taken a big leap in facilitating learning atmosphere to the students. I am very happy to know that our students are performing well at state and national levels in academic programmes as well as in extracurricular activities. During the period, the online technology appeared as a boon for teaching and learning of faculty and students in college. The output of all combined efforts of all stakeholders of institute has been widely appreciated. I acknowledge the efforts put by staff who contributed directly or indirectly in preparing this annual report.

Place : Kota  
Date : 11.05.2023

  
(A.K. Vyas)  
Vice-Chancellor  
Agriculture University, Kota



## College of Horticulture & Forestry

Jhalrapatan, Jhalawar-326023 (Raj.)



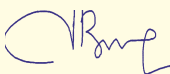
# PREFACE

College Annual Report for the year 2021-22, prepared by the Annual Report committee, highlights the notable achievements of the College of Horticulture & Forestry, Jhalawar. It provides a comprehensive overview of the academic, administrative, and research-related activities across all departments, sections, and units of the College. The report also encompasses significant developments in infrastructure and new initiatives undertaken during the year. To enhance the academic system and address emerging challenges, the College has implemented effective strategies for renovating its educational framework. We take pride in showcasing the substantial academic and research work accomplished by the College throughout the year. The report presents the contributions of faculty members, including papers, books, research projects, awards, and honours received from national and international agencies. These achievements reflect the institution's rich academic environment. Additionally, the Annual Report sheds light on the diverse and fruitful facets of the student community's academic and co-curricular activities undertaken during the year. The Editorial Team aims to exhibit the College administration's initiatives focused on fostering both qualitative and quantitative development.

We would like to express our gratitude to Prof A. K. Vyas, Hon'ble Vice-Chancellor, AU, Kota for his unwavering support, invaluable guidance, and encouragement in the completion of this report. Without the personal involvement and endorsement of the Hon'ble Vice-Chancellor, it would have been impossible for the editorial team to prepare such a comprehensive report within the given timeframe.

Lastly, on behalf of the entire team, I extend warm wishes to the readers, hoping that they have an insightful journey through the academic pursuits of our esteemed college

Place : Jhalawar  
Date : 10.05.2023

  
I.B. Maurya  
Dean



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## Chapter-1

### BACKGROUND & GENESIS OF COLLEGE

#### 1.1. College of Horticulture & Forestry, Jhalawar, Rajasthan

The College of Horticulture & Forestry, Jhalawar established during July 2004 with the mission to excel in education and research in the field of horticulture and forestry. It had been earlier the 6th constituent college of MPUAT, Udaipur. The College has completed 19 years of Academic Excellence providing quality education and making a remarkable contribution in the field of Education as one of the most sought-after colleges in the state of Rajasthan. The college has kept pace with the demanding needs and dynamics for molding students to be global citizens thus acquiring a well-deserved reputation in academics, sports and co-curricular activities.



The college is offering specialized under-graduate degrees in Horticulture and Forestry is the first of its kind in the state. The teaching, research and extension education programmers of the college are fully interwoven.

The campus is spread over in an area of 120 ha comprising of administrative building, various departments, hostels and instructional farms which includes administration block, various units, instructional cum demonstration farms, Experiential learning units, herbal garden, tissue culture lab. etc. The College has evolved incredibly in teaching, research and extension activities and achieved greater heights since its foundation. At present, the College has 12 departments to support academic, research and extension activities. The academic programmes include undergraduate degree viz., B.Sc. (Hons.) Horticulture and B.Sc. (Hons.) Forestry and post-graduate degree in Horticulture (Fruit Science, Vegetable Science, Floriculture and Landscaping, Post-Harvest and Technology) and in Forestry (Agroforestry and Silviculture, Forest Biology and Tree Improvement, Forest Products and Utilization, Wildlife Sciences) and Ph.D. in Fruit Science and in Silviculture and Agroforestry. The Academic, Research and Extension activities of the college are drawn from the well-defined mission statement which integrates the core values of the college with the modern objectives and goals of higher education, to promote globally competent knowledge citizens who are not only skilled and employable but also morally upright and spiritually inspired with “Humane Values and Social Commitment”.

The College gives due importance to overall growth and development of the students through their participation in various co-curricular activities viz., games and sports, literary activities, cultural programmes, guest lectures, regional and national educational tours besides their normal academic activities. The College is fully dedicated to provide the best quality education in the areas under its jurisdiction which is well reflected through the outstanding performance of students in the various competitive examinations of state government, ICAR-JRF and ICFRE examinations, securing



admission in the privileged institutions across the nation. The students of this college have also been selected for employment in various public and private sectors. The teaching, research and extension activities in the College are executed by proficient, energetic and well qualified faculty.

The establishment of the College of Horticulture and Forestry was an important milestone in the history of Jhalawar. It has exalted into a premier institution for Horticulture and Forestry and stands a monument academia in the field of horticulture that has been inscribed esteem from all corners of the country.

## 1.2. Goal

To generate competent human resource adequately skilled to address needs of Horticulture & Forestry and to keep pace with changing global cutting-edge technology in the subject.

## 1.3. Objectives

- To offer undergraduate and post graduate education in Horticulture and Forestry.
- To conduct basic and applied research in the field of Horticulture and Forestry.
- To act as a strong link for dissemination of technology, foster employment generation and development of entrepreneurship.
- To offer advisory and consultancy services to industries and other stakeholders.







## Chapter-2

### ACADEMIC AND STUDENT'S WELFARE

#### 2.1. Academic Programmes in the College of Horticulture & Forestry

S. No.	Degree Programme	Duration
1.	B.Sc. (Hons.) Horticulture	4 Yrs
2.	B.Sc. (Hons.) Forestry	4 Yrs
3.	M.Sc. Fruit science	2 Yrs
4.	M.Sc. Vegetable Science	2 Yrs
5.	M.Sc. Floriculture and Landscaping	2 Yrs
6.	M.Sc. Post Harvest Technology	2 Yrs
7.	M.Sc. Silviculture & Agroforestry	2 Yrs
8.	M.Sc. Forest Biology & Tree Improvement	2 Yrs
9.	M.Sc. Forest Products & Utilization	2 Yrs
10.	M.Sc. Wildlife Science	2 Yrs
11.	Ph.D. Fruit Science	3 Yrs
12.	Ph.D. Silviculture & Agroforestry	3 Yrs

#### 2.2. Students Strength in 2021-22

##### 2.2.1. Under Graduate Programmes:

S.No.	Degree Programme	Intake Capacity	Year wise students strength					Passed Out
			1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Total	
1.	B.Sc. (Hons.) Horticulture	61	53	59	53	47	212	47
2.	B.Sc. (Hons.) Forestry	66	55	55	48	45	203	43



### 2.2.2. Post Graduate Programmes

S. No.	Departments	Intake Capacity	Students Strength		Total	Passed Out
			M.Sc. 1 <sup>st</sup> yr	M.Sc. Final yr		
1.	Fruit Science	05	05	05	10	04
2.	Vegetable Science	05	04	05	09	04
3.	Floriculture & Landscaping	03	02	02	04	02
4.	Post Harvest Technology	02	01	02	03	02
1.	Silviculture & Agroforestry Forest Biology & Tree	05	04	05	09	02
2.	Improvement Forest Products &	05	00	02	02	00
3.	Utilization	05	00	00	00	00
4.	Wildlife Management	05	00	00	00	00

### 2.2.3. Ph.D. Programmes

S.No.	Departments	Intake Capacity	Students Strength		Total	Passed Out
			Ph.D. 1 <sup>st</sup> yr	Ph. D. Final Year		
1.	Fruit Science	03	03	04	07	02
2.	Silviculture and Agroforestry	02	01	02	03	-

### 2.3 Male: Female Ratio

Numbers of male and female students studying in different degree programmes during Academic Session 2021-22 are shown below:

S.No	Total students	Male students		Female students		Male: Female Ratio
		Number	Percentage	Number	Percentage	
1.	UG	308	72.81	115	27.19	2:68
	PG	29	56.86	22	43.14	1:32
	Ph.D.	08	66.67	04	33.33	2:0



## 2.4. Category wise Student Strength

The details of category wise break-up of student population in various UG & PG Programmes are given below:

S.No	Degree Programmes	Students Strength					Total
		GEN/EWS	SC	ST	OBC	MBC	
1.	B.Sc (Hons.) Horticulture	25	37	26	116	11	215
2.	B.Sc. (Hons.) (Forestry)	25	56	25	96	06	208
3.	M.Sc. ( Horticulture)	07	05	04	17	03	36
4.	M.Sc. ( Forestry)	-	-	04	11	-	15
5.	Ph.D. Fruit science	01	01	03	04	-	09
6.	Ph.D. Silviculture and Agroforestry	01	01	-	01	---	03
	<b>Total</b>	<b>59</b>	<b>62</b>	<b>62</b>	<b>425</b>	<b>20</b>	<b>536</b>

## 2.5. List of theses submitted during 2021-22

### 2.5.1. Masters Programme

Department	Major Advisor	Name of Student	Thesis Title
Fruit Science	Dr. Jitendra Singh	Jitendra Gurjar	Effect of different dose of bio stimulants on growth and development of Guava ( <i>Psidium guajava</i> L.) cv. Sardar.
		Neelkanth	Effect of biofertilizers on growth and development of Jackfruit ( <i>Artocarpus heterophyllus</i> L.) cv. Singapore Jack.
	Dr. Virendra Singh	Ajay Kumar Katariya	Effect of vermicompost and different anti-transpirants on growth and development of Jamun ( <i>Syzygium cumini</i> L.) cv. Goma Priyanka.
	Dr. Prerak Bhatnagar	Ms. Anju Yadav	Effect of zinc and vermicompost on growth and development of Guava ( <i>Psidium guajava</i> L.) cv. Sardar.
Vegetable Science	Dr. I.B. Maurya	Ms. Akshata	Effect of organic stimulants on growth, yield and quality of Cucumber under naturally ventilated polyhouse.
	Dr Kavita A.	Govind Ram Gurjar	Effect of Trichoderma and Humic Acid on growth yield and quality of Garlic ( <i>Allium sativum</i> L.) cv. G-282.
		Hardat Kaswan	Effect of bio- stimulants on growth, yield, and quality of Sweet Potato ( <i>Ipomoea batatas</i> L.) cv. Co-34.



		Mahendra Oad	Assessment of cabbage based intercropping system in different vegetable crops.
		Hemraj Meena	Effect of organic and inorganic manures on growth, yield, and quality of Okra ( <i>Abelmoschus esculentus</i> L.) cv. Varsha Uphar.
Floriculture and Landscaping	Dr. Ashutosh Mishra	Ms. Jyoti Gothwal	Effect of methyl jasmonate and salicylic acid on growth, flowering, and corm production of Gladiolus ( <i>Gladiolus hybridus Hort.</i> ) cv. American Beauty.
		Poonam Narayan Jamagoudar	Value addition of tuberose ( <i>Polianthes tuberosa</i> L.) Flowers tinting with edible dyes.
Post Harvest Technology	Dr. S.K. Jain	Amit Kumar Dhaker	Effect of yeast strains and TSS of the <i>must</i> on the quality of the wine produced from mandarin ( <i>Citrus reticulata</i> Blanco) fruits.
	Sh. Nirmal Kumar Meena	Indraraj Ghasil	Effect of post-harvest treatments on quality and storage of Custard Apple ( <i>Annona squamosa</i> L.).
Silviculture and Agroforestry	Dr. S.B.S. Pandey	Ravi Yadav	Studies on effects of spacing and organic inputs on out planting performance of Teak ( <i>Tectona grandis</i> L., F.) plantation in Jhalawar district of Rajasthan.

## 2.5.2. Doctoral Programme

Department	Major Advisor	Name of Student	Thesis Title
Fruit Science	Dr. Jitendra Singh	Sandeep Kumar	Effect of irrigation schedule and fertigation level on growth and development of Mandarin ( <i>Citrus reticulata</i> Blanco.)
	Dr. Prerak Bhatnagar	Ms. Priyanka Katara	Effect of integrated nutrient management on growth, yield, and quality of Acid Lime ( <i>Citrus aurantifolia</i> Swingle) cv. Kagzi



## 2.6. Scholarship recipients

List of number of students who received various scholarships such as National Talent Scholarship/Fellowship from ICAR, New Delhi, University Grant Merit Scholarship etc., during 2021-2022 is as given below:

### 2.6.1. List of various scholarships and their funding agencies

S. No.	Type of Scholarship	Funding Agency	UG	PG
1	Samaj Kalyan Vibhag Scholarship	State Govt.	133	02
2	CM Higher Education Scholarship	State Govt.	05	-
3	Agricultural Girl's Scholarship	State Govt.	113	17
4	Nirman Shramik Shiksha & Kaushal Vikas Yojna scholarship	State Govt.	27	-
5	Medhavi Chatra Scooty Yojna	State Govt.	01	-
6	National Talent Scholarship (NTS)	ICAR, New Delhi	03	03
7	Student READY Stipend	ICAR, New Delhi	96	-
8	National Fellowship for ST student (NFST)	Central Govt.	02	-

### 2.6.2. JRF fellowship awardees

S. No.	Name of Student	Subject
1.	Harshit Kumar	Horticulture
2.	Mangilal	Horticulture
3.	Ayushi Jain	Horticulture
4.	Sneha Rathor	Horticulture
5.	Rakesh Parasriya	Forestry
6.	Prakash Yadav	Forestry

### 2.6.3. NTS Fellowship awardees

S. No.	Name of Student
1.	Battu Prem Kumar
2.	Shivangi Rai
3.	Hanumanagouda Bharamagougra
4.	Vishwanath S.





### 2.7. Board of Studies

#### BOS meeting

9<sup>th</sup> Board of Studies meeting was held in the College of Horticulture and Forestry, Jhalawar on 07 March, 2022. External member Dr A. K. Pandey, Dr. J.C. Tiwari and Vice-Chancellor nominee Dr. Subash Chandra Sharma joined the meeting in online mode. In the meeting following agendas were discussed

- i. To confirm the minutes and action taken reports of 8th BoS Meeting for faculty of Horticulture and Forestry, AU, Kota held on 12.03.2021.
- ii. Adoption of ICAR-BSMA recommendation for M.Sc. & Ph.D. programmes offered by faculty of Horticulture and Forestry.
- iii. Approval of seat Matrix in faculty of Horticulture and Forestry w.e.f. Academic session 2022-23.

### 2.8. College Accreditation

A committee constituted by ICAR, New Delhi for accreditation of the college and various programmes under the chairmanship of Dr. T.A. More, Former Vice Chancellor, MPKV Rahuri visited the college on 07 September, 2021 for physical verification of the assets and the documents. The other committee members were Dr. B. Mohan Kumar, Vice Chancellor, Arunachal University of Studies, Arunachal Pradesh; Dr. C.R. Anand Kumar, Former Registrar, TANU, Tamil Nadu; Dr. Kamal Sharma, Dean, COH&F, Hamirpur, Himachal Pradesh; Dr. Nidhi Verma, Principal Scientist, Education Division, ICAR, New Delhi.

Dr. I. B. Maurya, Dean CHF, Jhalawar welcomed the committee members and presented the self-study report of the college along with various degree programmes through PPT before the committee members. The committee members also visited the various units to verify the facilities available in classrooms, laboratories, experiential learning units, horticultural farms, hostels etc., They also interacted with the faculty and students of the college and gathered feedback from them. Finally, ICAR, New Delhi, accredited the college along with two UG programmes namely B.Sc. (Hons.) Horticulture & B.Sc. (Hons.) Forestry; Six Masters Programmes namely M.Sc. Fruit Science, M.Sc. Vegetable Science, M.Sc Floriculture & Landscaping, M.Sc. Silviculture & Agroforestry, M.Sc. Forest Products & Utilization, M.Sc. Forest Biology and Tree Improvement and one Ph.D. programme i.e., of Fruit Science for five years upto March 2026.

During the visit, Dr. D.C. Joshi, Honorable Vice Chancellor of the Agriculture University, Kota; Dr. L.K. Dashora, Former Dean, CHF, Jhalawar; Dr. S. K. Jain, Director, Extension Education, Dr. Pratap Singh, Director, Research were also present.



## Glimpses of the visit of Accreditation Team





## **2.9. New Initiatives taken for quality improvement in education at UG, PG level.**

- i. Finalization of revised PG syllabus as per ICAR-BSMA recommendation at PG and Ph.D. level in the faculty of Horticulture and Forestry w.e.f. Academic Session 2022-23
- ii. Preparation of students for competitive examinations like ICAR-JRF, ICAR-SRF, ICAR-JET, ICAR-ARS, etc. by providing question banks and conducting online test series in Horticulture and Forestry.
- iii. Providing online platform to the students for accessing 50000 question banks in each Agricultural, Horticultural and Forestry streams for their competitive examinations.
- iv. Procured online video modules on Personality Development and English-Speaking Skills (Grammar, reading, writing, pronunciation, vocabulary, speaking, listening, and communication) for the students.

## **2.10. Students Welfare & Extra Curricular Activities**

### **2.10.1 Education Tour:**

College of Horticulture and Forestry, Jhalawar conducted two national level educational tours for B.Sc (Hons.) Horticulture IV Year students during 23-31 March, 2022 and for B.Sc. (Hons) Forestry IV Year during 1- 9 June, 2022. During the tours, students visited different institutions like CCSHAU, Hissar; PAU, Ludhiana; Dr Y.S Parmar University of Horticulture and Forestry, Solan (HP); CPRI, Kufri (HP); FRI, Dehradun (UK); IARI, New Delhi and RARI, Jaipur, Rajasthan. Students were exposed to various advance techniques and new startups being used in the field of horticulture and forestry.







## Glimpses of Educational trip (UG Students) Final Year ( Horticulture)





## 2.10.2. Organization of Annual Prize Distribution Ceremony

Annual Prize Distribution Ceremony “Aahwaan-2022” of the college was held on 19<sup>th</sup> May, 2022. The Chief Guest of programme was Dr. D.C. Joshi, Hon'ble Vice Chancellor, AU Kota, Guest of Honour Dr. Bharti Dixit, Collector & District Magistrate, Jhalawar and Special Guest Er. M.S. Acharya, Former Dean, CH&F, Jhalawar, Dr. I. B. Maurya, Dean, CH&F, Jhalawar and University authorities graced the programme with their presence. Winner and runners of various activities related to academics and cultural programmes during the year 2018-2022 were felicitated with trophies and certificates.



### 2.10.2.1 Academic toppers during annual function 2022

S.No	Degree Programme	Degree offered	Year	Name of student	OGPA
1.	Bachelor	B.Sc (Hons.) Horticulture	I	Ms. Priyal Tiwari	8.34
			II	Ms. Sweta Chugh	8.67
			III	Jyotiraditya Solanki	8.34
			IV	Ms. Rishika Choudhary	8.61
		B.Sc (Hons.) Forestry	I	Babu Lal Dhaker	8.20
			II	Ms. Shiwangi Rai	8.20
			III	Ms. Varsha Shekhawat	8.64
			IV	Ms. Visha Jain	8.46
2.	Masters	Horticulture	I	Ms. Ritu Panwar	8.82
			II	Ms. Poonam N. J.	9.03
		Forestry	I	Shubhanshu	8.20
			II	Ms. Poonam Purbiya	7.83
3.	Doctoral	Fruit Science	I	Deepak Singh Rathore	7.91



### 2.10.2.2 Winners of cultural activities during annual function 2022

Competition	Date	Name of Student	Position	Class
Online Drawing and painting Competition	5-10 June, 2021	Adarsh	First	B.Sc. Hons Horticulture 1 <sup>st</sup> Year
		Miss Shivani Malav	Second	B.Sc. Hons Horticulture 1 <sup>st</sup> Year
Online Poem Writing Competition	21-25 June, 2021	Mahendra Saini	First	B.Sc. Hons Forestry 1 <sup>st</sup> Year
		Miss Nisha Sharma	Second	M. Sc. Horticulture 1 <sup>st</sup> Year
Desh Bhakti Geet writing competition under Aajadi Ka Amrit Mahotsav	15-20 December, 2021	Naveen Dhakad	First	B. Sc. Horticulture 4 <sup>th</sup> Year
		Manoj Patidar	Second	B. Sc. Horticulture 3 <sup>rd</sup> Year
Rangoli Making Competition under Aajadi Ka Amrit Mahotsav	15-20 December, 2021	Miss Niti Agarwal	First	B. Sc. Horticulture 3 <sup>rd</sup> Year

### 2.10.3. Celebration of Rajasthan Science Literature Festival

Three days Rajasthan Science Literature Festival was organized in the College of Horticulture and Forestry, Jhalawar during 14-16 February, 2022 in association with Department of Science and Technology, Kota region. Various activities like debate competition, slogan writing competition and lecture series about knowledge augmentation through research in young aspirants, Fellowship programme, science book publication and Augmenting writing skills for articulating research were organized during the festival. Various Government colleges and high schools students of Jhalawar region were participated in these activities.





### 2.11. Celebrations of Important Days & Events

- **Independence Day:** 75<sup>th</sup> Independence Day was celebrated in the college campus. Chief Guest of the function Dr. I. B. Maurya, Dean CH&F, Jhalawar hoisted the flag. Director Students Welfare Dr. Jitendra Singh and other faculty members delivered their speech on Independence Day.



- **Plantation Program:** A plantation program was also organized in the College on 15<sup>th</sup> August 2021. College staff participated in the plantation program and planted 100 saplings of different species like Molshree, Gulmohar and Neem as avenue plantation.



- **Mahatma Gandhi and Lal Bahadur Shastri Jayanti:** On 2<sup>nd</sup> October, 2020, at the College of Horticulture and Forestry, Jhalawar, a program was organized on the birth anniversary of the Father of the Nation, Mahatma Gandhi and the Former Prime Minister, Shri Lal Bahadur Shastri. Books written on Mahatma Gandhi were also displayed on the occasion.



- **Bhagat Singh Jayanti:** Bhagat Singh Jayanti was organized on 28<sup>th</sup> September, 2021 in the college. On this occasion the Dean Dr. I.B. Maurya started the program by garlanding the portrait of Shaheed Bhagat Singh. Staff members and students paid their tribute by offering flowers.



- **Constitution Day:** Constitution Day was celebrated on 26 November 2021 in Horticulture and Forestry College, Jhalawar. In the program, Director, Students Welfare, Dr Jitendra Singh shared information about fundamental duties and rights and appealed to all to ensure their participation in the development of the nation. College staff, NSS, NCC and students actively participated in the program.

- **Agriculture Education Day:** First president of India, Bharat Ratna Dr. Rajendra Prasad's birth anniversary was celebrated as Agriculture education Day on 3<sup>rd</sup> December, 2021 at the college of Horticulture and Forestry, Jhalawar. DSW, AU Kota Dr. Jitendra Singh encouraged students towards agriculture education and new innovation in his presidential address.





- **World Soil Day:** World Soil Day was celebrated on 5<sup>th</sup> December, 2021 in the college campus. Soil Scientist Dr. Rahul Chopra addressed to the students and shared knowledge about soil problems due to salinity and process of reduction of soil salinity. A quiz was also organized for the students.
- **Competition on Aajadi ka Amarit Mahotsav:** Celebration on completion of 75 years of Independence in the form of Aajadi ka Amarit Mahotsav, various online competitions like Rangoli, Desh Bhakti Geet writing, and Lori writing were organized on 20 December 2021 by the college.
- **Vivekanand Jayanti:** Swami vivekanand Jayanti was celebrated in online mode as “Rastriya Yuva Divas” on 12 January, 2022. On this day participants were shared the thoughts and life values of swami Vivekanand. Dean Dr I. B. Maurya addressed the participants and guided them to learn from life of swami Vivekanand.
- **National Voters Day:** National Voters Day was celebrated on 25 January, 2022 in online and offline mode. The voters oath was swear in by the Dean Dr I. B. Maurya to all the participants. A state level online essay competition was also conducted on “Election during Covid pandemic: Challenges and Opportunities” in collaboration with Director of student's welfare, Agriculture University, Kota
- **Republic Day:** 73<sup>rd</sup> Republic Day was celebrated in the College campus. Dean of the College and Chief Guest of the function Dr. I.B. Maurya did the flag hosting and addressed to all participants. Dr Jitendra Singh, DSW, AU Kota and other faculty members delivered their speech on the day.
- **100 Days Count-down programme:** 100 Days Count-down programme of International day of Yoga was celebrated on 14 May 2022. Students and staff members were practiced yoga





and Aasana during the session. Dr. Jitendra Singh, DSW, AU, Kota addressed to the participants and motivate them to apply yoga in daily routine.

- **World Tambaku Nished Diwas:** Tambaku Nished Diwas was organized on 31 May, 2022 in the Kisan Mela programme organized by Krishi Vigyan Kendra Jhalawar in eve of Prime Minister programme “Garib Kalyan Sammelan”. All the college and KVK staff members along with farmers and other District officials took oath for not to use tobacco.



- **Cyber awareness day:** Cyber awareness day was organized by NSS unit on 1st June 2022 in the college to provide information about cyber frauds and their prevention. On this day Dean of the College Dr. I. B. Maurya addressed to the students and shared information about various cyber frauds and how we can secure our self from such frauds. College students and staff members were actively participated in the programme.



- **World Bicycle Day:** World Bicycle day was organized on 03 June, 2022 in the College campus. On this occasion Dr Jitendra Singh, Director student welfare addressed to the students and talked about benefits of cycling. They motivated students to use bicycle in daily routin to maintain fitness and prevent polution.



- **World Environment Day:** world environment day was celebrated in the college of 5<sup>th</sup> June 2022 on the theme of only one Earth. On this occasion staff members and students were planted Neem plants in the campus in the presence of Dean Dr. I. B. Maurya and DSW, AU Kota Dr. Jitendra Singh. An Essay competition was also organized for students on the topic “Action for Sustainable Environment during 75 years of Indian freedom” under Aajadi ka amrit mahostsav.





## 2.12. National Service Scheme (NSS) and Other Social Activities

- **NSS Special camp:** NSS Special camp of seven days duration was organized by NSS Unit during 22-28 January, 2022 for NSS volunteers under Aajadi ka amrit mahotsav. NSS volunteers were participated in campus cleaning activity, Plantation, Subash Chandra Bose Jayanti and celebration of Republic Day during this camp.



- **World Yoga Day:** NSS volunteers were asked to perform yoga at their places and to send their photographs. Also online poem writing competition on Yoga was organized on 21.0.2021. The collections of performance of Yoga by NSS volunteers as follows





### College of Horticulture and Forestry, Jhalawar

Agriculture University, Kota

Organise

### Online Poem Writing Competition

On the occasion of

## International Day of Yoga





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**Themes:** - (1) Yoga: Base of healthy life (योग : स्वस्थ जीवन का आधार )  
 (2) Sustainable Environment: Need for healthy life (संतुलित पर्यावरण: स्वस्थ जीवन की आवश्यकता )  
 (3) Organic farming: Requirement of healthy life (जैविक खेती: स्वस्थ जीवन की जरूरत )

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**Rules:**

1. Only registered students of the College of Horticulture and Forestry, Jhalawar can participate in the competition
2. Participant can write poem in their own words on any one of the given theme in Hindi or English
3. Poem in its entirety must be an original work by the person participating in the competition .
4. One participant can submit only one poem
5. Participant can submit their entry in hand written or typed mode
6. Do not write your name on submitting sheet
7. Submit your entry in JPG or PDF or Word format with your name and class as file name up to 25<sup>th</sup> June 2021 on [onlinecompetitionchf@gmail.com](mailto:onlinecompetitionchf@gmail.com)
8. Send the entry with following detail: (i) Your name, (ii) Father's name and (iii) Class
9. Certificate: will be given to winning participants

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For any query contact Dr. Hemraj Chhipa, ADSW (M) 9540024455

- 05.08.2021 Program on anniversary of Abrogation of Article 370 Online program on anniversary of Abrogation of Article 370 organized



# Annual Report-2021-22



21-22 August 2021, Parthenium eradication Program



26-11-2021, Celebration of Constitution Day



02-10-2021, Celebration of Gandhi Jayanti



3-12-2021, Celebration of Agriculture Education Day



26-11-2021, Celebration of Constitution Day



16 -12-2021, Cancer Prevention and Healthy Lifestyle Awareness Program



12-01-2022, Celebration of Vivekanand Jayanti



One-week special camp *Azadi Ka Amrit Mahotsav* -2022



14-05-2022, 100 Days Counting Program on Yoga Day





## 2.13. National CADET CORPS (NCC) Activities

NCC unit was started in 2018 under 14 Raj BN NCC, Kota with sanctioned capacity of 53 cadets: The total strength of students in NCC programmes conducted during 2021-22 is as under:

Academic year (2021-22)	Boys	Girls	Total
Cadets	35	18	53

### 2.13.1. Award in NCC Activity

Ms. Nisha Jat, NCC Cadet Received NCC Medal in Cultural activities during NCC Training Camp, 15-24, July 2022 at Kota.

### 2.13.2. Activities conducted during NCC programme

S. No.	Duration	Activity/Programme	No of Participants
1.	26.07.2021	Celebrating Kargil Vijay Diwas (Online mode)	37
2.	10.08.2021	Online Poetry Competition on Minimizing pollution & Forest conservation on theme "Clean India-Green India."	37
3.	11.08.2021	Digital poster card/poster making competition on the preamble of Indian constitution.	37
4.	13.08.2021	Azadi ka Amrit Mahotsav, Fit India Freedom Run 2.0	37
5.	15.08.2021	Online uploading the recorded National anthem programme	32
6.	16.08.2021	Pre RDC training Camp	02
7.	08.25.9.2021	ePoster completion on "My vision of India 2030"	25
8.	06.12.09.2021	Cadre Training Camp	28
9.	28.11.2021	Celebration of NCC Day	29
10.	15.01.2022	Celebrating Indian Army Day on virtual mode	49
11.	14.05.2022	100 days count down programme of International Day of Yoga -2022	35
12.	05.06.2022	Celebrating World Environment Day	37
13.	21.06.2022	Celebrating International Yoga Day	35
14.	26.06.2021	Online Poster competition on International Anti-drug day	37
15.	15-24.07.2022	CATC camp at 14, raj NCC, Kota	29
16.	26.07.2022	Celebrating "Kargil Vijay Diwas"	35



## Glimpses of various NCC activities during 2021-22





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## 2.14. Student Ready (Forestry/ Horticulture)

### 2.14.1. Rural Horticultural Work Experience (RHWE) programme

During the period of July to December, 2021, 47 students of B.Sc. (Hons.) Horticulture final year were placed for Orientation Programme for a period of two weeks duration from 15th July to 29th July, 2021 through online mode. Thereafter, students were undergone for industrial placement for 35 days duration and they were attached to various agro-industries like Dhanvantri Nursery, Sanjeevani Nursery, Swami Vivekanand Jaivik Krishi Anushandhan Kendra, Manpura, PNB Farmers Training Centre etc. from August 02, 2021 to September 07, 2021 to get hands on experience. Students were also attached with different Krishi Vigyan Kendra for 12 weeks duration to get rural exposure to under Rural Horticulture Work Experience programme.



Training of B.Sc. (Hons.) students under RHWE



## 2.14.2. Experiential Learning Programme

In second semester, 47 students of B. Sc. (Hons.) Horticulture final year were placed for 10 weeks duration each in any two modules of the three Experiential Learning Units viz., Commercial Horticulture, Protected Cultivation of High Value Horticultural Crops and Bee Keeping of their choice. After completion of EL programme, students presented their work through PPT before the committee members for evaluation.

## 2.14.3. Forestry Work Experience (FWE) programme

A total of 44 students of B.Sc. (Hons) Forestry were undergone Forestry Work Experience (FWE) programme in different components viz., orientation, socio-economic survey of villages, Divisional Forest attachment, Industrial attachment and weapons training and first-aid training for a period of 10 days, 20 days, 50 days, 20 days and 8 days duration respectively during the VIII semester. Final presentation of FWE students was conducted in the last week of June, 2022.

## 2.15. Students Training, Counseling and Placement Activities

### 2.15.1 Selection of students in other organizations

S. No.	Name of Student	Organization
1	Sandeep Kumar	IABM, Bikaner
2.	Rajkumar	IABM, Bikaner
3.	Nilkant	Assistant Horticulture Officer
4.	Sunita Prajapat	AFO, Canara Bank
5.	Priyanka Katara	SMS (Horticulture), Agriculture University, Jodhpur
6.	Kalpna Chaudhry	SMS (Horticulture), Agriculture University, Jodhpur
7.	Pawan Kumar Pareek	SMS, Agriculture University, Jodhpur
8.	Rohit Umariya	Agriculture Supervisor, Agriculture Department, Rajasthan
9.	Sahil	Bayer Crop Sciences





## 2.16. Hostel facility

The strength of boarders and facilities available in hostels are shown below:

S.No.	Hostel	Room Availability	Strength	Facilities Available
1.	U.G Boys	51	46	Modular Kitchen with Bran Marie (keeping food warm), Induction, Uninterrupted electric supply with Invertor backup, advanced facilities like Inclinator in washroom, recreation room equipped with LCD TV, Newspapers along with indoor and outdoor games facilities like Table tennis, Carrom board, Chess, Badminton, Tread Mill, etc.
2.	P.G Boys	12	12	
3.	Girls	33	58	



View of Students Hostel in College Campus



## 2.17. Sports Facilities available in college

Outdoor and indoor games facilities for football, volleyball, basketball, kabaddi, cricket, athletics track, table tennis and badminton etc. have been arranged in the college premises where students play games of their own choice. Time to time coaching camps is organized to prepare students stand competitively in national events





## Chapter-3

### RESEARCH AND DEVELOPMENT

#### 3.1 National Agricultural Higher Education Project (Innovation Plan for Hi Tech Horticulture)

It was a mega project started in college with the aim to meet out quality standards by modernization/refurbishing of classrooms through establishment of smart and virtual classrooms, modernization of instructional farms through procurement of equipment's, installation of drip/ sprinkler system, renovation of protected cultivation unit, establishment of hydroponic unit, strengthening of library by providing high speed internet facility, procurement of e-books/ journals and study material for imparting quality education and excel in the field of agricultural research. The salient achievements of the projects are as under:



- Development of Agro techniques for soil less cultivation- in order to find out the suitable crops for hydroponics/ aeroponic, different vegetables including herbs namely tomato, cucumber, lettuce, cabbage, cauliflower, broccoli, poc chi, spinach, amaranths, coriander, parsley, celery, basil, mint, bacopa, strawberry were grown on different hydroponic models viz., horizontal, A-frame and vertical towers.



- Out of three types of models established in the college, vertical towers accommodate approximately 130 plants per meter sq area followed by A- frame and horizontal hydroponic structures which accommodates 33 and 09 plants per sq meter respectively.
- Horizontal model was used for growing herbs as well as vine vegetable whereas vertical and A-frame were used for herbs only. For providing balanced nutrition to the plants, an excel sheet was designed to find out exact quantity of individual nutrients required by each crop.
- Application of nutrient solution based on EC level was found to be the best way of applying nutrition in hydroponics. For each crop separate nutrient recipe was developed for harnessing maximum yield and quality production.





## 3.2 All India Coordinated Research Projects (All India Coordinated Research Project on Arid Zone Fruits)

- PI Sh. Nirmal Kumar Meena, Assistant Professor (Fruit Science)
- Co-PI Sh. Ladhuram, Assistant Professor (Plant pathology)

### 3.2.1 Germplasm survey and collection of Lasoda, tamarind and custard apple

Extensive survey was conducted in villages of Udaipur, Chittorgarh and Rajsamand, Ajmer and Jhalawar districts. Two elite genotypes of Custard apple were identified and collected from Bhanpura (Udaipur) and Dudalia (Rajsamand) having fruit weight of 492g and 453.67g respectively. One elite genotype of tamarind from Sarthal was collected which had around 35.16g pod weight, 23.77cm pod length and good pulp recovery.



Custard apple and Tamarind germplasm collected during the survey

### 3.2.2 Evaluation of germplasm of Lasoda, tamarind and custard apple

Among the lasoda genotypes evaluated during the 2021-22, accession IC-0628226 was found to be better in terms of plant height (4.28m) followed by IC-0628225 (4.23m). The highest fruits per plant (6.53kg) was reported in IC-0628227 followed by (6.25kg/plant) in IC-0628228. Under the evaluation of genotypes of Tamarind, accession No IC-0615047 and IC-0615045 performed well in terms of vegetative growth parameters such as maximum plant height (3.92m and 3.78m respectively). Fruiting (Avg. 20 pods/tree) was observed in IC-0615044 and IC-0615046. Among the evaluated germplasm of custard apple, maximum vegetative growth parameters like plant height (2.15m), plant spread (1.71m) reported in accession 4 (IC-0615031). Similarly, first time fruiting (around 5-7 fruits/plant) was reported in IC-0615029, IC-0615031 and IC-0615034.

### 3.2.3 Varietal evaluation trial of custard apple and tamarind

Under the varietal evaluation trial of custard apple, maximum plant yield was produced by Balanagar (16.69kg/ plant) followed Raydurg (14.67kg/plant). However, this year very less no. of flowers were observed in custard apple cultivars to due irregular rainfall. Among the tamarind varieties, Pratishthan tamarind showed maximum plant height (5.11m) followed by PKM 1(4.81m) over the other varieties of tamarind such as Goma Prateek, red tamarind and Urigam. No of pods per plant avg. (40pods) were reported in Pratishthan and PKM-1 cultivars.



Varietal evaluation trial of custard apple



Varietal evaluation trial of tamarind

### 3.2.4 Integrated nutrient management in custard apple cv. Arka Sahan

Effect of integrated nutrient management on yield of Arka Sahan was evaluated. Highest fruit yield was recorded in treatment T10 (50% RDF+25% vermicompost+ biofertilizers AZB;PSB and VAM @ 50:50:20g/plant) (9.96 kg/plant) followed by T9 (9.60kg/plant).

### 3.2.5 Root stock trials in arid fruits

Bhagwa scion grafted over IC-318707 (P3) exhibited higher plant height (2.48m), plant spread (2.23m & 2.14m EW and NS respectively). Highest fruit yield (3.72kg/plant) was reported in P3 followed by P2.

### 3.2.6 High density planting in custard apple cv. Phule Janaki

Maximum plant height 69cm was recorded in treatment T3 (6x4m spacing). All plants are under establishment phase.

### 3.2.7 Studies on enhancement of shelf life in custard apple cv. Balanagar

Fruits of Balanagar coated with wax emulsion (8%) showed least changes in biochemical parameters, maintained the maximum shelf life (7.67days) and minimum decay incidence (50.44%) at the end of storage of 8 days which was at par with Sago treatment (15%). However, organoleptic acceptability was more in sago treated fruits as compare to wax coated fruits.



Coating for shelf-life enhancement



High Density planting of Custard apple



### 3.2.8 Survey and surveillance of key diseases

During the survey of Custard apple, incidence of leaf spot disease was observed ranges from 8-17% in Ratanpura and Jhalrapatan (Jhalawar) and Nahargarh (Baran), Chittaurgarh and Bhanpura (Rajsamand). The survey was conducted at Chhipabarod, Nahargarh (Baran), Rajpura, Sunel for diseases of Tamarind. The disease incidence of tamarind black pod was observed from 13-17%. During the survey at Chhipabarod (Baran) and Jhalrapatan leaf spot disease incidence in Lasoda was observed from 15-17%.

### 3.2.9. Screening of germplasm of arid zone fruit for resistance against different disease

Six cultivars of custard apple were screened for resistant to Anthracnose diseases. Among them, Arka sahan (9.40%) and Atemoya (10.20%) showed minimum Per cent disease incidence while maximum incidence (19.60%) was observed in APK (Ca-1).

### 3.2.10. Identification of different microorganism causing post-harvest fruit rots

In Tamarind, black pod disease incidence was observed 13% while in Pomegranate fungal fruit spot disease incidence was observed 16% at Jhalawar.

### 3.2.11. Management of leaf spot of Lasoda

Among the different chemicals, Trifloxystrobin + Tebuconazole (0.1%) was found significantly superior over the others with minimum disease intensity (8.67 %) as compared to the control.



**Leaf spot of custard apple**  
(*Phoma* spp.)



**Leaf spot of Lasoda** (*Alternaria alternata*)



### 3.3. Student / faculty research-projects sanctioned by other agencies

S. No	Title	Duration	Name of students/faculty	Funding Agency	Amount (in Lakh)
1	Magnitude of Residue of Cyantraniliprole and its metabolites (IN-J9Z38) in Pomegranate fruit	2020-21	Dr. Suresh Kumar Jat	FMC India Pvt. Ltd	4.0
2	Bio-efficacy of fungicide GPF 1617 against disease of Cucumber	2020-22	Sh. Ladhuram	UPL	4.0

### 3.4. Seed production programme during 2021-22

S. No.	Crop	Variety	Category	Area (Ha)	Yield (Qtls)
1	Soybean	JS-20-34	CS	6.0	8.00
2	Mustard	Giriraj	TL	04	18.10
3	Coriander	RKD-18	TL	02	19.70
4	Linseed	KBA-04	CS	05	9.40
5	Gram	GNG-2044	FS	03	23.00

### 3.5. Production of planting material during 2021-22

S. No.	Plant	Variety	No. of plants
1.	Orange	Nagpur mandarin	16560
2.	Mosambi	Mosambi	20
3.	Teak	Local	40
4.	Papaya	Red Lady	2500





## Chapter-4

### EXTENSION EDUCATION ACTIVITIES

#### 4.1. Seminar on Organic farming

A seminar on organic farming was organized on 6th October 2021 in association with Consumer Unity and Trust society (CUT's) organization, Jaipur during Green Action Week 2021 in the College Campus. College students were actively participated in the seminar.



#### 4.2. National Workshop on Hydroponic Cultivation

Two days National workshop on Hydroponic Cultivation was organized by College of Horticulture and Forestry, Jhalawar during 28-29 March, 2022 via online mode. Eminent experts Padamshree Dr. Brahma Singh, Chairman BSHF, Sh. Rajesh Kumar, Business Development Manager Cravo Equipment Ltd, Sh. Ramgopal, CEO, Future Farms, Sh. Ankur Anand, KBC India, Dr. Praveen Singh, Director PPRII, New Delhi, Er. Praveen Sharma, Flora Consultant, Dr. Deepti Rai, Principal Scientist Ayurved Research Foundation and Dr. I. B. Maurya, Dean, CH&F, Jhalawar delivered their lectures on various aspects of hydroponics cultivation. More than 1000 participants registered from International and national institutes in this seminar.



#### 4.3. Farmers Training on Production Technology for under-utilized fruits

AICRP ICAR, New Delhi sponsored one day farmers training on Production Technology for underutilized fruit was organized under SC-sub scheme by the College on 26th February, 2022. Experts were delivered their lectures on nursery management, production technology, nutrient management and quality plant materials to farmers of Jhalawar region.



#### 4.4. Van Mahotsav

Development and establishment of Forest species plantations on roadside and along the boundary wall of college campus on regular basis as well as one day plantation programmes.



#### 4.5. Organization of training for farmers

S.No	Faculty/Scientist	Inputs Provided to the Farmers	Programme	No of participants	Date
1.	Sh. Ladhuram	Stationary (Pen, Folder, Notepad), Zn sulphate 5Kg bag, Micronutrient mixture, Abhinav Krishi magazines, Secateur, Krishi calendar, Nagpur mandarin 20 plants, Papaya 20 plants	TSP Training at KVK Pratapgarh on Cultivation techniques of fruit crops	50	16 February, 2022
2.	Sh. Ladhuram	Stationary (Pen, Folder, Notepad), Zn sulphate 5Kg bag, Micronutrient mixture, Abhinav Krishi magazines, Secateur, Krishi calendar, Nagpur mandarin 20 plants, Papaya 20 plants	TSP Training at KVK Pratapgarh on Cultivation techniques of fruit crops	50	17 February, 2022
3.	Sh. Ladhuram	Stationary (Pen, Folder, Diary), Zn Micronutrient 5kg bag, Abhinav Krishi magazines, Secateur, Krishi calendar, Nagpur mandarin 50 plants	Farmers Training on Production Technology for under-utilized fruits	50	26 February, 2022

#### Glimpses of Training





#### 4.5. National Seminar/webinar organized

S. No	Title of webinar/seminar/workshop	Duration	No. of Participants
1.	Webinar on Agriprenurship	24-25, July 2021	65
2.	Webinar on Formulation of Business Plan	31 July, 2021	60
3.	Webinar on Organic Farming as Entrepreneurial Venture	07 August, 2021	50
4.	Webinar on Floriculture and Landscaping as Entrepreneurial Venture	29 August, 2021	55
5.	Seminar on Organic Farming	06 October, 2021	82

#### Glimpse of Webinar Organized



#### 4.6. Exhibitions Organized

S. No.	Name of programme	Placed	Date
1	Kisan mela on Kisan Bhaagidaari-Prathmikta Hamaari"	KVK, Jhalawar	26 April, 2022
2	Kisan mela on Gareeb kaliaan sammelan-Shat Pratishat Shashaktikaran	KVK, Jhalawar	31 May, 2022



Interection of Shri Dushyant Singh, MP, Jhalawar at college Stall in Kissan Mela, KVK, Jhalawar



## 4.7. Radio talk/ TV talk delivered

Sr. No.	Name of Teacher	Radio Talk	Date
1	Dr Suresh K Jat	<i>Kharif Faslo ki Dekhbhal</i>	15 July, 2021
2	Dr Suresh K Jat	<i>Sarsho Me Paudh Sanrakshan</i>	27 October, 2021
3	Dr. S.B.S. Pandey	<i>Mrida Jivansh aur Vaniki</i>	20 November, 2021
4	Sh. Rajesh Kumar Sharma	<i>Krishi Sevayen Aapke Dwar</i>	20 January, 2022
5	Dr Bhuri Singh	<i>Kisanvani-Varsha Aadharit Kshetra Vikas Karyakkram (Mote Aanajo Ke Sandharbh Me)</i>	26 January, 2022
6	Dr Rahul Chopra	<i>Mrida Urvarta Badhane Ke Upaay</i>	14 April, 2022
7	Sh. Ladhuram	<i>Phal bagicho me rog prabandhan</i>	12 May, 2022
8	Sh. Rajesh Kumar Sharma	<i>Is Samay Ke Krishi Kary</i>	26 May, 2022

## 4.8. SMART Village / Village Adoption Programme

Operationalization of “Mera Gaon Mera Gaurav” (MGMG) scheme by the University under which college adopted 10 villages of Jhalawar. Two groups were formed each with five villages. One group have five villages namely Salotiya, Marayata, Malipura, Bherupura, Golana while the other group have villages namely Rundalao, Dityakhedi, Dunda, Jhumki and Gopalpura. Initially baseline survey in aforesaid villages was conducted by the scientific team members of the college and thereafter mobile advisories and technologies are being transferred among villagers.







## Chapter-5

### HUMAN RESOURCE DEVELOPMENT

#### 5.1 Staff details of College of Horticulture & Forestry, Jhalawar

S. No.	Particulars	Sanctioned	Filled	Vacant
1.	Dean	1	1	-
2.	Professor	4	2	2
3.	Associate Professor	13	3	10
4.	Assistant Professor	43	16	27
5.	Assistant Librarian	1	-	1
6.	Assistant Registrar	1	-	1
7.	Section Officer	2	1	1
8.	Technical Assistant / Farm Manager	3	2	1
9.	Lab Technician	1	-	1
10.	PA	1	-	1
11.	Stenographer	1	-	1
12.	U.D.C.	2	-	2
13.	Lab Assistant	6	4	2
14.	L.D.C.	3	1	2
15.	Library Assistant	1	-	1
16.	Driver	2	1	1
17.	Matron	1	1	-
18.	Care Taker	2	-	2
19.	Agriculture Supervisor	4	3	1
20.	Store Keeper	1	-	1
21.	Forest guard	2	2	-
22.	Gardner	2	-	2
23.	Shelf Assistant	1	-	1
24.	Lab Attendant	1	-	1
25.	Class IV	5	-	5
	<b>Total</b>	<b>104</b>	<b>37</b>	<b>67</b>





## 5.2 Department wise Staff

S. No.	Department	Particulars	Name of Staff
1.	Vegetable Science	Prof & Head	Dr. I. B. Maurya
		Assoc. Prof.	Dr. Kavita A.
		Asstt. Prof.	Sh. Rajesh Kumar Sharma
		Technical Assistant	Sh. Ramraj Karwarsara
2.	Fruit Science	Prof & Head	Dr. Jitendra Singh
		Assoc. Prof.	Dr. Prerak Bhatnagar
		Asstt. Prof.	Sh. Nirmal Kumar Meena
		Technical Assistant	Sh. Yogendra Kumar Sharma
3.	Floriculture and Landscaping	Prof & Head	Dr. Ashutosh Mishra
		Agriculture Supervisor	Sh. Balram Nagar
4.	Post Harvest Tech.	Prof & Head	Dr. S. K. Jain
5.	Silviculture and Agroforestry	Assoc. Prof & Head	Dr. S. B. S. Pandey
		Asstt. Prof.	Dr. Prahlad V. C.
		Forest Guard	Sh. Suresh Chand Saini
6.	Forest Biology and Tree Improvement	Asstt. Prof. & Incharge	Mrs. Neetha P.
		Forest Guard	Sh. Rajpal Verma
7.	Forest Products and Utilization	Asstt. Prof & Incharge	Dr. Kanica Upadhyay
		Asstt. Prof.	Dr. Bhuvnesh Nagar
		Asstt. Prof.	Dr. Anju S. Vijayan
		Lab Assistant	Sh. Ramesh Chand Nagar
8.	Wildlife Managemant	Asstt. Prof & Incharge	Dr. Anchal Sharma
9.	Natural Resource Management	Asstt. Prof & Incharge	Er. C. K. Arya
		Asstt. Prof.	Dr. Rahul Chopra
		Lab Assistant	Sh. Nana Lal Mali
10.	Plant Protection	Asstt. Prof & Incharge	Dr. Suresh Kumar Jat
		Asstt. Prof.	Sh. Ladhu Ram
11	Basic Science	Asstt. Prof & Incharge	Dr. Ashok Kumar
		Asstt. Prof.	Dr. Anil Kumar Gupta
		Asstt. Prof.	Dr. Hemraj Chhipa
		Asstt. Prof.	Dr. Bhuri Singh
		Lab Assistant	Sh. Manish Kumar
12	Social Science	Asstt. Prof & Incharge	Dr. Priyanka Solanki



### 5.3. Supporting Units & their Incharges

S. No.	Unit	Incharge	Name of Staff
1.	Academics & Student Section	Academic In-Charge	Er. C. K. Arya
		Asstt. Academic In-Charge	Dr. Kanica Upadhyay
		Lab Assistant	Sh. Narottam Malav
2.	Library	Library In-Charge	Dr. Bhuri Singh
3.	Accounts & Establishment	U.D.C.	Sh. Narayan Lal
		Lab Assistant	Sh. Devendra Singh
4.	Student Welfare	ADSW	Dr. Hemraj Chhipa
5.	Games & Sports	In-Charge	Dr. Rahul Chopra
6.	N.C.C	NCC Officer	Dr. Suresh Kumar Jat
7.	N.S.S	In-Charge	Dr. V. C. Prahlad
8.	Placement Cell	In-Charge	Dr. Priyanka Solanki
9.	Krishak Bhawan	In-Charge	Dr. Anil Kumar Gupta
10.	Hostels	Chief Warden	Dr. Ashutosh Mishra
		PG Hostel Warden	Dr. S. B. S. Pandey
		UG Boys Hostel Warden	Sh. Rajesh Kumar Sharma
		Girls Hostel Warden	Dr. Anchal Sharma
		Matron	Ms. Seema Cheeta
11.	Tissue Culture Laboratory	In-Charge	Dr. Ashok Kumar
12.	Horticultural Farm	In-Charge	Dr. Prerak Bhatnagar
13.	Protected Cultivation Unit	In-Charge	Sh. Rajesh Kumar Sharma
14.	Building Maintenance	In-Charge	Dr. Bhuvnesh Nagar
15.	Vehicle	Vehicle In-charge	Dr. C. K. Arya
		Driver	Sh. Hemraj Kushwaha



### 5.4. List of Transfers / Resignation

S. No.	Name	Designation	Retirement/ posting
1.	Shri Ashish Dhanotiya	Library Assistant	Resignation
2.	Shri Nanaram Mali	Laboratory Assistant	Resignation
3.	Shri Tuli Ram	Ag. Supervisor	Retirement

### 5.5. Seminars / Conferences / Group meeting / Workshop, etc. attended

S.No.	Name of Scientist	Title of event	Organised by	From	To
1.	Dr. Priyanka Solanki	21 Days national training Course on Opportunities in Agriculture, Animal Husbandry & Allied Sectors for Sustainable Entrepreneurship & Livelihood Security	Center for agribusiness incubation and Entrepreneurship RVSKVV, Gwalior	1 July, 2021	21 July, 2021
2.	Dr. Ashok Kumar	Programming of Web & Mobile Applications using Low-code Platforms”	ICAR-NAARM, Hyderabad	07 July, 2021	12 July, 2021
3.	Dr. Priyanka Solanki	Online Workshop on Data Analysis using SPSS (Basic to Advance)	Academic Research Practices	12 July, 2021	16 July, 2021
4.	Dr. Bhuvnesh Nagar	Twenty-One Days Online National Refresher Course on Reorienting Extension Education and Advisory Services for Sustainable Development of Farming Community	Karnataka Veterinary Animal and Fisheries Sciences University, Bidar	8 July, 2021	28 July, 2021



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5.	Mrs. Neetha P.	Online workshop on Which Plant is it? Introduction to plant identification	BIOLOGIA LIFE SCIENCE LLP, Ahmednagar, Maharashtra (India)	26 August, 2021	28 August, 2021
6.	Dr. Priyanka Solanki	Summer School for Finance and Accounting	SKB University, West Bengal	28 August, 2021	30 August, 2021
7.	Dr. Priyanka Solanki	Faculty Development Programme on Basic to Advance Time Series using R Studios	Academic Research Practices online	22 November, 2021	26 November, 2021
8.	Dr. Bhuri Singh	21 days winter course on "Biofortification of staple food crops through conventional and molecular approaches"	CCSHAU, Hisar	03 January, 2022	23 January, 2022
9.	Dr. Priyanka Solanki	Winter School on "Skilling of Rural Youths for Employment Generation in Agriculture	Maharana Pratap University of Agriculture and Technology, Udaipur	24 January, 2022	24 January, 2022
10.	Sh. Rajesh Kumar Sharma	Participated in winter school on "Crop diversification with low volume high value seed spices and horticultural crops for doubling farmer's income"	ICAR-NRCSS, Ajmer, Rajasthan.	11 January, 2022	31 January, 2022
11.	Dr. Ashok Kumar	Participated in winter school on "Crop diversification with low volume high value seed spices and	ICAR-NRCSS, Ajmer, Rajasthan.	11 January, 2022	31 January, 2022



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		horticultural crops for doubling farmer's income”	Khargone, M.P.		
12.	Mrs. Neetha P.	15 days Capacity Building Program in Basic Statistics for Research organised	The Indian Teacher Education Community in collaboration with Gulab Bai Yadav Smriti Shiksha Mahavidyalaya, Borawan	17 Feb. 2022	03 March, 2022
13.	Sh. Ladhuram	21 days ICAR winter school on “disease scenario in climate change conditions- challenges, experience, innovation and future prospects”	Department of Plant Pathology, SKNAU, Jobner (Raj.)	02 March, 2022	22 March, 2022
14.	Mrs. Neetha P.	21 days training programme on Forest Management for sustainable use of Natural resources	College of Forestry, Banda University of Agriculture & Technology, Banda UP	03 March, 2022	23 March, 2022
15.	Mrs. Neetha P.	2 days online conference on “Ecological restoration”	The Department of Landscape Architecture and Center for Ecological Landscapes (CEL), Dr. Bhanuben Nanavati College of Architecture for Women (BNCA), Maharshee Karve Stree Shikshan Samstha (MKSSS), Pune	5 March, 2022	6 March, 2022



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16.	Mrs. Neetha P.	One Week Online Faculty Development Program On “Advanced Research Methodology”	Amiruddaula Islamia Degree College, Lucknow & Science Tech Institute, Lucknow	21 March, 2022	27 March, 2022
17.	Dr. Bhuvnesh Nagar	Winter school on “Climate Smart Agriculture for Sustainable Production” organized	RPCAU, Pusa	28 March, 2022	17 April, 2022
18.	Dr. Rahul Chopra	21 days Winter School entitled “Advances in Irrigation Technology and Nutrient Management in Arid Horticultural Crops” organized	SKRAU, Bikaner	8 March, 2022.	28 March, 2022.
19.	Dr. Priyanka Solanki	2nd Indian Horticulture Summit – 2022 on Horticulture for Prosperity and Health Security at	Navsari Agriculture University, Navsari, Gujarat	27 April, 2022	29 April, 2022
20.	Dr. Priyanka Solanki	Training Programme on “Course Management through MOOCs”	ICAR- National Academy of Agricultural Research Management, Hyderabad	6 June, 2022	10 June, 2022



## 5.6. Awards and Recognitions

S. No	Name of Faculty	Award Title	Year	Society
1.	Dr Priyanka Solanki Assistant Professor	3 <sup>rd</sup> position in poster presentation	2022	In 2 <sup>nd</sup> Indian Horticulture Summit-2022 on Horticulture for Prosperity and Health Security organized by Society for Horticultural Research and Development, Uttar Pradesh, India at Navsari Agricultural University, Navsari, Gujarat during April 27-29, 2022
2.	Dr. Anju Vijayan Asstt. Prof.	Certificate of Appreciation	2021	Sir Syed College, Kannur University, Kerala
3.	Dr. Priyanka Solanki Assistant Professor	Best Academician Award	2021	Agro Environmental Development Society, Rampur, Uttar Pradesh
4.	Dr. Priyanka Solanki Assistant Professor	Excellence in Teaching Award	2021	Samagra Vikas Welfare Society
5.	Dr. Hemraj Chhipa Assistant Professor	NESA Environmentalist of the Year Award	2021	National Environmental Science Academy

## 5.7. Various college level committees for the year 2021-22

### 5.7.1. Staff council Committee

S.No.	Name & Address	Members
1.	<b>Department of Fruit Science</b>	
	Dr. Jitendra Singh, Professor & Head, CHF, Jhalawar	<b>Convener</b>
	Dr. Deepa Hansraj, Professor, BSBAU, Lucknow - 226025 (UP). Mob: 9452290810 ; Email: deepahansraj1999@gmail.com	External Member
	Dr. Harminder Singh, Professor, COA, PAU, Ludhiana - 141004 Punjab Mob; 8146444554; Email: hodhort@pau.edu	External Member
	Dr. Prerak Bhatnagar, Asstt. Prof., CHF, Jhalawar	Internal Member





<b>2.</b>	<b>Department of Vegetable Science</b>	
	Dr. I. B. Maurya, Prof &Head, CHF, Jhalawar	<b>Convener</b>
	Dr. Shridhar, Principal Scientist, IARI, New Delhi Mob:9873357632; Email:shridhar60@hotmail.com	External Member
	Prof. A. K. Soni, Professor, SKN College of Agriculture, Jobner- Rajasthan Mob:9414517534; Email: aksoni.horti@sknau.ac.in	External Member
	Dr. Kavita A., Assistant Professor, CHF, Jhalawar	Internal Member
<b>3.</b>	<b>Department of Floriculture and Landscape Architecture</b>	
	Dr. Ashutosh Mishra, Prof &Head, CHF, Jhalawar	<b>Convener</b>
	Dr. Ajay Kumar Tiwari, Principal Scientist, IARI, New Delhi Mob: 8317004388 ; Email: drajaitiwari@gmail.com	External Member
	Dr. Gaurav Sharma, Associate Professor, CHF, Jhansi (UP). Mob: 9826718402 ; Email: gauravhort@gmail.com	External Member
<b>4.</b>	<b>Department of Post Harvest Technology</b>	
	Dr. S. K. Jain, Prof & Head, CHF, Jhalawar	<b>Convener</b>
	Dr. Sanjay Pathak, Prof & Head (PHT), NDUAT, Ayodhya (UP) Mob: 9415720124 ; Email:sanjay.pathakhort@gmail.com	External Member
	Dr. Shailendra Dwivedi, Asstt. Prof. (PHT), CoH, Mansaur - 458001(MP). Mob: 8959025045 ; Email:shailendra.pht@gmail.com	External Member
	Sh. Nirmal K. Meena, Asstt. Prof., CHF, Jhalawar	Internal Member
<b>5.</b>	<b>Department of Silviculture and Agroforestry</b>	
	Dr. S.B.S. Pandey, Associate Prof &Head, CHF, Jhalawar	<b>Convener</b>
	Dr. J.C. Tewari, Retd. Principal Scientist, H.No -182, Prem Nagar, Pal Road, Jodhpur-342003 (Raj.). Mob: 9460106536; Email: drjctewari@gmail.com	External Member
	Prof. Manmohan Dobriyal J.R., CHF, RLBCAU, Jhansi. Mob: 9408851285; Email: manmohandobriyal@yahoo.com	External Member
	Dr. Prahlad V.C., Assistant Professor, CHF, Jhalawar	Internal Member
<b>6.</b>	<b>Department of Forest Products and Utilization</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. Amol Vasishth , Assoc. Prof. & Head, Tehri Garhwal, UK Mob: 9413007208, Email: vasishthamol@gmail.com	External Member
	Prof. B.S. Chauhan, Deptt. of Forestry & Natural Resources, HNB Gharwal University, Srinagar Gharwal (UK) Mob:7500280692, Email: dschauhan2008@gmail.com	External Member
	Dr. Kanica Chauhan, Asstt. Prof. & In charge, CHF, Jhalawar	Member Secretary



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<b>7.</b>	<b>Department of Forest Biology and Tree Improvement</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. S.K. Jha, Associate Professor & Head, Deptt. of FBTI, College of Forestry, Navsari Agri. Uni., Navsari -396450 (Guj.) Mob: 9725018790 ; Email: sumanjha@nau.in	External Member
	Dr. I.D. Arya, Scientist G & Head, FBTI, AFRI, Jodhpur Mob: 9460745663 ; Email:aryaid@icfre.org	External Member
	Mrs. Neeta P., Asstt. Prof.& In-charge, CHF, Jhalawar	Member Secretary
<b>8.</b>	<b>Department of Wildlife Management</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. Arti Prasad, Head, Deptt. of Zoology , MLSU, Udaipur Mob: 9001392724; Email: artimlsu@yahoo.co.in	External Member
	Dr. Fatima Sultana, Associate Prof. Kota University, Kota Mob: 9413405786 ; Email: jdbfatimasultana@gmail.com	External Member
	Dr. Anchal Sharma, Asstt. Prof & In-charge, CHF, Jhalawar	Member Secretary
<b>9.</b>	<b>Department of Plant Protection</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. B.L. Jat, Prof. & Head, SKN COA, Jodhpur, Rajasthan Mob: 9414516628; Email: bljat.ento@sknau.ac.in	External Member
	Dr. S.S. Sharma, Prof., RCA, MPUAT, Udaipur. Mob:7073105583; Email: sharmass112@gmail.com	External Member
	Dr. S.K. Jat, Asstt. Prof & In-charge, CHF, Jhalawar	Member Secretary
<b>10.</b>	<b>Department of Natural Resource Management</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. Ram Hari Meena, Head, Deptt. of Soil Science, RCA, MPUAT, Udaipur-313001 Mobile: 9414723612, Email: ramharim@gmail.com	External Member
	Dr. P.K. Singh, Prof., CTAE, MPUAT, Udaipur Mob: 9414166190; Email: pksingh35@yahoo.com	External Member
	Dr. C.K. Arya, Asstt. Prof & In-charge, CHF, Jhalawar	Member Secretary
<b>11.</b>	<b>Department of Basic Science</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. Bhim Singh, Assoc. Prof., SVP Univ. of Agri. & Tech., Meerut, UP Mob: 9461022782 Email:bhimsingh1@gmail.com	External Member



	Dr. Rukam S. Tomar, Assoc. Prof. (PBG), JAU, Junagadh, External Member Gujarat- Mob: 9426037195; Email:rukam@jau.in	
	Dr. Ashok Kumar, Asstt. Prof & In-charge, CHF, Jhalawar	Member Secretary
<b>12.</b>	<b>Department of Social Sciences</b>	
	Dr. I.B. Maurya, Dean, CHF, Jhalawar	<b>Convener</b>
	Dr. Rajesh Sharma, Prof. & Dean, COA, Ganganagar - 335001 Mob: 9414430165 ; Email:rajesharma.ac@gmail.com	External Member
	Dr. J.P. Yadav, Prof. & Dean, COA, Dholpur Mob:9414819414 ; Email: jpyadav.ext@sknau.ac.in	External Member
	Dr. Priyanka Solanki, Asstt. Prof & Incharge, CHF, Jhalawar	Member Secretary

## 5.7.2. Board of Studies

S. No.	Name	Designation	Work Place	Appointment
1.	Dr. I. B. Maurya,	Dean	College of Horticulture and Forestry, Jhalawar	Ex-officio Chairman
2.	Dr. A. K. Pandey	Dean	CH&F, RLB Central Agriculture University, Jhansi	External Member
3.	Dr. J.C. Tewari	Retd. Principal Scientist	CAZRI, Jodhpur	External Member
4.	Dr. M. C. Jain	Dean	COA, Kota	Ex-Officio Member
5.	Dr. N. L. Meena	Dean	COA, Hindoli	Ex-Officio Member
6.	Dr. Virendra Singh	Controller of Examinations	Agriculture University, Kota	Ex-Officio Member
7.	Dr. Baldev Ram	Assoc. Prof.	ARS, Kota	VC Nominee
8.	Dr. S. C. Sharma	Assoc. Prof.	ARS, Kota	VC Nominee
9.	Dr. Jitendra Singh	Prof. & Head, Dept. of FRS	CH&F, Jhalawar	Member
10.	Dr. S. K. Jain	Prof. & Head, Dept. of PHT	CH&F, Jhalawar	Member
11.	Dr. Ashutosh Mishra	Prof. & Head, Dept. of FLS	CH&F, Jhalawar	Member
12.	Dr. S. B. S. Pandey	Assoc. Prof. & Head, Dept. of SAF	CH&F, Jhalawar	Member
13.	Dr. C. K. Arya	Asst. Prof. and Incharge, NRM	CH&F, Jhalawar	Member
14.	Dr. Ashok Kumar	Asst. Prof. and Incharge, Basic Science	CH&F, Jhalawar	Member



15.	Dr. S. K. Jat	Asst. Prof. and Incharge, Plant Protection	CH&F, Jhalawar	Member
16.	Dr. Anchal Sharma	Asst. Prof. and Incharge, WLM	CH&F, Jhalawar	Member
17.	Dr. Priyanka Solanki	Asst. Prof. and Incharge, Social Science	CH&F, Jhalawar	Member
18.	Dr. Kanica Upadhyay	Asst. Prof. and Incharge, FPU	CH&F, Jhalawar	Member
19.	Mrs. Neetha P.	Asst. Prof. and Incharge, FBTI	CH&F, Jhalawar	Member

### 5.7.3. Disciplinary committee

S.No	Committee Members	Appointment
1.	Dr. Ashutosh Mishra, Prof. & Head, Chief Warden	Convener
2.	Dr. C.K.Arya, asstt Prof. & academic In- Charge	Member
3.	Dr Hemraj Chhipa, Asstt Prof. & ADSW	Member
4.	Dr. S.B.S.Pandey, Assoc. Prof. & Head, Warden PG boys Hostel	Member
5.	Dr. Anchal Sharma, Asstt Pros. & Warden Girls Hostel	Member
6.	Sh. Rajesh Kumar Sharma, Asstt Pros. & Warden UG Boys Hostel	Member

### 5.7.4. Committee for prevention of Sexual Harassment

S.No	Committee Members	Appointment
1.	Dean	Chairman
2.	Dr. Kavita A. , Assoc. Prof.	Member
3.	Dr. Anchal Sharma, Asstt Pros. & Warden Girls Hostel	Member
4.	Sh. Rajesh Kumar Sharma, Asstt Pros. & Warden UG Boys Hostel	Member
5.	Mrs. Seema Cheeta, Matron	Member
6.	Topper students from each faculty 1. Ms. Rishika Choudhary B.Sc. (Hons.) Horticulture IV yr. 2. Ms. Ayushi Jain B.Sc. (Hons.) Forestry IV yr.	Member

### 5.7.5. Tender Committee

S.No	Committee Members	
1.	Dr. Prerak Bhatnagar, Asstt Prof , Dept. of Fruit Science	Convener
2.	Dr. Bhuri Singh, Asstt Prof	Member
3.	Dr. Priyanka Solanki, Asstt Prof	Member
4.	Sh. Narayan Lal, ASO, Account Section	Member Accounts
5.	Person Concerned	Member



## Chapter-6

### DEVELOPMENTAL WORKS

#### New Resources/ Infrastructure Developed

**6.1. Construction of new examination hall in the campus:**

The examination hall was constructed in the college with the financial assistance of Rs 50 lakh by the State Government, in which 100 students can sit for the examination simultaneously.



**6.2.** Two virtual class rooms were established for under graduate students. Through the virtual class room teaching, the teaching learning environment will be improved and turned learning more effective, interesting and easy to understand.



**6.3.** Grading and packaging unit strengthened with four central and five side wooden grading tables in protected cultivation for grading and sorting of different horticultural produce under NAHEP-IG project.



**6.4.** Establishment of Experiential Learning unit under project "Raising Quality Planting Materials for Tree Planting" sponsored by ICAR- New Delhi and produced more than 35000 Seedlings of different species of Forestry importance during January'2022 to June'2022.



**6.5.** Laboratory development for Department of Silviculture and Agroforestry at Herbal Garden and Two modern Nurseries as a part of Experiential learning Unit for forestry students at CHF, Jhalawar.

**6.6.** Development of Shisham Plantations for growth and yield studies of the shisham and interaction studies with several intercrops like Turmeric, Linseed, fenugreek, Coriander and Mustard at Herbal Garden at CHF, Jhalawar



## Chapter-7

### FINANCIAL EXPENDITURES AND REVENUE DURING 2021-22

#### 7.1 Financial Expenditure (in Rs.)

S.No.	Budget Head	Sanction in FY 2021-22	Expenditure	Balance on 31.03.2022
1.	State Plan	1,43,50,000	1,85,07,656	- 41,57,656
2.	State Non Plan	2,10,00,000	3,35,25,363	- 1,25,25,363
3.	AICRP on AZF	91,98,134	43,99,280	47,98,854
4.	ICAR-Development Grant	1,03,00,000	66,02,148	36,97,852
5.	Student Ready	17,28,000	17,28,000	-
6.	ICAR-NTS	2,68,640	2,68,640	-
7.	ICAR- Library Strengthening	5,00,000	5,00,000	-
8.	NSS	45,000	45,000	-
9.	NAHEP-IG Project	74,16,420	20,67,344	53,49,076
10.	NAHEP-2A Project	4,50,000	4,50,000	-
11.	Private Projects	5, 78,221	5,78,221	-
	<b>Total</b>	<b>6,52,56,194</b>	<b>6,86,71,652</b>	<b>-28,37,237</b>

#### 7.2. REVENUE GENERATED

S.No.	Particulars	Amount (In Rs.)
1.	Sale of Planting Material	6,74,955
2.	Sale of Vegetables from Protected Cultivation Unit	5,26,100
3.	Sale of Seeds	2,15,233
4.	Sale of Fruits	14,860
5.	Sale of Honey from Honey Processing Unit	86,250
6.	Rent of Guest house	9,280
	<b>Total</b>	<b>15,26,678</b>



## Chapter-8

### RESEARCH PUBLICATIONS

#### 8.1. Research Papers in National / International Journals

S.No	Name of Faculty	Title	Publication	NAAS Rating
1.	Kumari P., Sharma R. K., Kavita A., Maurya I. B., Gautam D. and Jakhar R. K.	Response of different organic fertilizers to growth, yield attributes and profitability in fenugreek under heavy clay soil of Southern Rajasthan.	<i>The Pharma Innovation Journal</i> , (2022). <b>11(2):</b> 1515-1519.	5.23
2.	SK Deshmukh, L Dufossé, Hemraj Chhipa, S Saxena, GB Mahajan, MK Gupta	Fungal endophytes: A potential source of antibacterial compounds	<i>Journal of Fungi</i> . (2022) <b>8 (2):</b> 164	11.82
3.	Roshan Kumawat, Baldev Ram, Pratap Singh, J. P. Tetarwal, Rajendra Kumar Yadav, Anil Kumar Gupta and Anju Bijarnia	Response of summer mungbean ( <i>Vigna radiata</i> ) to phosphorus levels, biophos liquid biofertilizer and growth regulator.	<i>Indian Journal of Agronomy</i> . (2022) <b>67 (2):</b> 170-174.	5.55
4.	Anju Bijarnia, J.P Tetarwal, Baldev	Interactive effect of intercropping systems and fertility levels on yield and economics of summer cowpea intensified with baby	<i>Annals of Agricultural Research</i> . (2022) <b>43 (2):</b> 164-167.	4.78



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5.	Singh, B. and Rajpoot, V.	Evaluation of drought tolerance indices for selection of high yielding fenugreek genotypes under moisture regimes.	<i>Indian Journal of Ecology</i> , (2022). <b>49(2):</b> 470-476.	5.79
6.	Kumar, M., Rawat, S., Nagar, B., Kumar, A., Pala, N.A., Bhat, J.A., Bussmann, R.W., Cabral Pinto, M. and Kunwar, R.	Implementation of the Use of Ethnomedicinal Plants for Curing Diseases in the Indian Himalayas and its Role in Sustainability of Livelihoods and Socioeconomic Development.	<i>International Journal of Environmental Research and Public Health</i> . (2021) <b>18(4)</b> : 1509	-
7.	Rawat, S., Nagar, B., Adhikari, B.S., Pandey, R., Alatalo, J.M.	Biomass Loss in Village Ecosystems in Western Himalaya due to Wild Monkey Interactions: A Case Study	<i>Environmental Challenges</i> . (2021) <b>4</b> : 100085	-
8.	Nagar, B., Rawat, S., Pandey, R. and Kumar, M.	Variation in Specific Gravity and Carbon Proportion of Agroforestry Tree Species of Himalaya.	<i>Environmental Challenges</i> . (2021) <b>4</b> : 100156	-
9.	Gautam Deeksha, Jain, S.K., Bhatnagar, P., Meena Nirmal and Chhipa, H.	Utilization of custard apple pulp for preparation of blended nectar	<i>Indian Journal of Horticulture</i> (2021). <b>78(2):</b> 229-235	6.16
10.	Hajji-Hedfi, L. & Chhipa, H.	Nano-based pesticides: challenges for pest and disease management corn.	<i>Euro-Mediterranean Journal for Environmental Integration</i> (2021). <b>6(3):</b> 69	-





### 8.2 Popular Articles

1. Hemraj Chhipa and Deshmukh (2022). Endophytes: Potential agents for sustainable agriculture practices, *Academic Press, Elsevier*.
2. Hanuman Singh, Hemraj Chhipa and Anil Kumar Gupta (2022). Cucumber cultivation in Net House. *Abhinav Krishi*. 4(1): 4-6
3. Anil Kumar Gupta Hanuman Singh, and Hemraj Chhipa (2022). Role of growth regulator in floriculture. *Abhinav Krishi*. 4(1):13
4. Hanuman Singh, Hemraj Chhipa and Anil Kumar Gupta (2022). Integrated Pest Management in Tomato Crop. *Abhinav Krishi*. 4(1): 43-44
5. Kanica Chauhan and S.B.S Pandey (2021). Medicinal Plant as immunity booster during Covid times *Baagvan*.

### 8.4 Bulletins/ Practical Manuals

1. Practical Manual for course “Environmental Studies and Disaster Management” for Agriculture stream Under-Graduates, Ashok Kumar and Anju. S. Vijayan, 2022.
2. Practical manual on growth and development of horticultural crops, Gupta A.K., 2022

### 8.5 Book Chapters

1. Solanki, P. (2021) Entrepreneurial Opportunities in Horticulture and Allied Field in India, 5th International Conference on Advances in Agriculture, Environmental and Biosciences for Sustainable Development (AAEBSSD-2021)
2. Verma, A., Kavita A. and Kritika W. (2022) Management of pre and post harvest diseases of fenugreek in 'Recent Innovative Updates in Agricultural –Horticultural Sciences' by Mahalingappa M Dhanoji and Mukesh Kumar Meena, Akinik Publications, New Delhi
3. Sharma R. K., Yadav B., Sharma S. C. and Sanjay K. 2022. Advances in seed quality enhancement technologies for improvement in crop productivity. In Book: Advance Approaches in Plant Breeding. Page 125-149.
4. Yadav B., Yadav P. K., Sharma R. K., Gurjar M. K. and Jakhar M. (2022). Importance of Mulching in Vegetable Crops. In Book: Recent Trends in Agriculture. Page 73-80.
5. Yadav B., Yadav P. K., Sharma R. K. and Jakhar M. (2022). Off season induction of flowering and fruiting in fruit crops. In Book: Recent Approaches in Agriculture. Page 223-235.
6. Kumari, V., Kumawat, P., Rajpoot, S.S., Chaudhary, S. and Singh, B. (2022). Smart Breeding: Molecular interventions and advancements for crop improvement. Apple Academic Press, Canada.



## Chapter-9

### VISITORS

#### 9.1 : Visit of Dignitaries

Sl. No.	Name of Visitors	Designation	Date of Visit
1.	Dr. T.A. More	Former Vice Chancellor, MPKV Rahuri,	07 September, 2021
2.	Dr. B Mohan Kumar	Vice Chancellor, Arunachal University of Studies, Arunachal Pradesh	07 September, 2021
3.	Dr. C.R. Anand Kumar	Former Registrar, TANU, Tamil Nadu	07 September, 2021
4.	Dr. Kamal Sharma	Dean, COH&F, Hamirpur, Himachal Pradesh	07 September, 2021
5.	Dr. Nidhi Verma	Principal Scientist , Education Division, ICAR, New Delhi	07 September, 2021
6.	Prof. A.K. Gahlot	Forer Vice-Chancellor, Rajasthan University of Veterinary & Animal Sciences, Bikaner	15 March, 2022
7.	Prof. N.C. Patel	Forer Vice-Chancellor, Anand Agriculture University, Anand, Gujarat	15 March, 2022
8.	Prof S.R. Maloo	Former Dean, Rajasthan College of Agriculture, Udaipur	15 March, 2022
9.	Prof. L.K. Dashora	Former Dean, College of Horticulture and Forestry, Jhalawar	15 March, 2022
10.	Dr. D.C. Joshi	Hon'ble Vice-Chancellor, Agriculture University, Kota	15 March, 2022



Visit of Hi-Power Committe of AU, Kota





# **COLLEGE OF HORTICULTURE & FORESTRY**

(Agriculture University, Kota)

Jhalarapatan- 326 023, Jhalawar (Rajasthan)

E-mail : [chf@aukota.org](mailto:chf@aukota.org); [deancohf2004@gmail.com](mailto:deancohf2004@gmail.com)