



Activities and Achievements

GENESIS:

The Department of Post Harvest Technology (PHT) was established during 2004 under ASPEE College of Horticulture, NAU, Navsari. The department teaches undergraduate courses in Horticulture and offers post graduate programs supported by well-trained faculties. At present two years M.Sc. and three years Ph.D. degree programmes are running in the Department of Post Harvest Technology. These degree programmes are formulated for developing competent Human Resource for which significant job opportunities exist in this country. With the advancement in production technology, the high yield / area of crops lead to large amount of marketable surplus of food grains, fruits and vegetables and crop residues, demanding appropriate post harvest handling, processing, preservation, storage, marketing and utilization. The development of food processing industries to preserve the perishable agricultural produce will not only improve economic and nutritional status of our population but also it may help in employment generation in rural as well as urban areas of the country. This can be achieved by linking production and post-harvest technology in a synergistic way. For this purpose, the department is equipped with excellent Fruit and Vegetable Processing Units for pilot scale testing of technologies, providing in-plant training and imparting community canning service to the students, farmers and entrepreneurs.

ACADEMIC ACTIVITIES:

List of Courses offered by the Department for under Graduate Programme (As per 6th Dean's Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	I	SEC 11	Post harvest Management of Horticultural Produce	2(0+2)	Dr. A. K. Senapati/ Dr. F. M. Sahu
Sub-Total				2(0+2)	

List of Courses offered by the Department for under Graduate Programme (As per 5th Dean's Committee)

B.Sc. (Hons.) Horticulture					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
2.	IV	NRMH-4.6	Farm Power and Machinery	2 (1+1)	Dr. F. M. Sahu
3.	V	PHT-5.2	Postharvest Management of Horticultural Crops	3 (2+1)	Dr. A. K. Senapati/ Dr. F. M. Sahu (practical)
4.	VI	PHT-6.3	Processing of Horticultural Crops	3 (1+2)	Dr. A. K. Senapati
Sub-Total				8(4+4)	
B.Sc. (Hons.) Forestry					
5.	VIII	BSH -8.11	Agricultural Informatics (Forestry)	2(1+1)	Dr. A. K. Senapati/ Dr. F. M. Sahu

Sub-Total				2 (1+1)	
STUDENT READY-I: Experiential Learning Programme (ELP)					
6.	VII	HWE-7.3	Post harvest handling and value addition in Horticultural Crops	10 (0+10)	
		HWE-7.3.1	Preparation and evaluation of processed products	6 (0+6)	Dr. N. V. Patel Dr. A. K. Senapati Dr. Dev Raj
		HWE-7.3.2	Packaging and Marketing of processed products	4 (0+4)	Dr. P. S. Pandit
STUDENT READY-II: Rural Horticultural Work Experience (RHWE)					
7.	VIII	RHWE-8.1	Visit to progressive farmer's field and NGO	2 (0+2)	Dr. P.S. Pandit Dr. Naren K Patel Prof. Arvind P Chaudhary Dr. Smita Gupta
8.	VIII	RHWE-8.6	University farms (NAU) and private horticultural field visit of South Gujarat region	4 (0+4)	Dr. P.S. Pandit Dr. Naren K Patel Prof. Arvind P Chaudhary Dr. Smita Gupta
Sub-Total Student Ready				16 (10+6)	
Grand Total				28 (15+13)	

List of Courses offered by the Department for Post Graduate Programme (As per BSMA Committee)

M.Sc. Horticulture- Post Harvest Management					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	Odd	PHM-501*	Post Harvest Management of Horticultural Produce	3 (2+1)	Dr. N. V. Patel
2.	Even	PHM-502*	Post harvest Physiology and Biochemistry of Perishables	3 (2+1)	Dr. J. M. Mayani
3.	Odd	PHM-503	Packaging and Storage of Fresh Horticultural Produce	2(1+1)	Dr. P. S. Pandit
4.	Even	PHM-504	Packaging and Storage of Processed Horticultural Produce	2 (1+1)	Dr. A.K. Senapati& Dr. N. V. Patel
5.	Odd	PHM-505*	Principles and Methods of Fruit and Vegetable Preservation	3 (2+1)	Dr. Dev Raj
6.	Even	PHM-506	Laboratory Techniques in Postharvest Management	3 (1+2)	Dr. H.G. Suthar& Dr. F. M. Sahu
7.	Odd	PHM-507*	Processing of Horticultural Produce	4 (2+2)	Dr. A.K. Senapati
8.	Even	PHM-508	Quality Assurance, Safety and Sensory Evaluation of Fresh and Processed Horticultural Produce	3 (2+1)	Dr. P. S. Pandit
9.	Odd	PHM-509	Functional Foods from Horticultural Produce	2 (2+0)	Dr. J. M. Mayani
10.	Even	PHM-510	Marketing and Entrepreneurship in Post Harvest Horticulture	2 (1+1)	Dr. A.K. Senapati& Dr. N. V. Patel
11.	Odd	PHT-591	Master's Seminar	1 (0+1)	PG Guide
12.	Even/	PHT-599	Master's Research (Major Subject)	30(0+30)	PG Guide

	Odd				
13.	Even	VSC-514	Post Harvest Management of Vegetable Crops	3 (2+1)	Dr. N. V. Patel
14.	Even	PSMA-506*	Processing of Plantation Crops, Spices, Medicinal and Aromatic Plants	3 (2+1)	Dr. N. V. Patel
15.	Odd	ABM-518	Food technology and processing management	2 (2+0)	Dr. N. V. Patel
16.	Even	PHT-502	Fundamentals principles of fruits and vegetables	2 (1+1)	Dr. A.K. Senapati
17.	Odd	PHT-503	Laboratory Analysis and Quality Assurance Techniques of Fresh & Processed Horticultural Produce	2 (1+1)	Dr. H.G. Suthar
18.	Even	PHT-504	Sensory Analysis of Fresh and Processed Horticultural Product	2 (1+1)	Dr. P. S. Pandit
19.	Odd	PHT-505	Pre harvest practices affecting Post harvest life of perishable horticultural produce.	2 (2+0)	Dr. A.K. Senapati
20.	Odd	PHT-509	Packaging of perishable horticulture produce	2 (1+1)	Dr. P. S. Pandit
21.	Even	PGS-503	Intellectual property and its management in Agriculture (ACH)	1 (1+0)	Dr. A.K. Senapati
22.	Even	PGS-503	Intellectual property and its management in Agriculture (College of Forestry)	1 (1+0)	Dr. A.K. Senapati
23.	Even	MICRO-503	Microbial Genetics (Agriculture)	3 (2+1)	Dr. H. G. Suthar
24.	Odd	MICRO-591	Master's Seminar (Agriculture)	1 (1+0)	Dr. H. G. Suthar
*Compulsory				Total	58 (25+33)
COMPULSORY NON-CREDIT COURSES					
	Even	PHT-512*	In-Plant Training	NC	Dr. Dev Raj

Ph.D. Horticulture- Post Harvest Management					
S.N.	Sem.	Course Code	Title	Credit hrs.	Faculty
1.	Odd	PHM-601**	Ripening and Senescence of Fruits and Vegetables	2 (1+1)	Dr. N. V. Patel
2.	Even	PHM-602**	Recent Trends in Food Preservation	2 (1+1)	Dr. Dev Raj
3.	Odd	PHM-603	Management and Utilization of Horticultural Processing Waste	3 (3+0)	Dr. H.G. Suthar
4.	Even	PHM-604**	Supply Chain Management of Perishables	2 (2+0)	Dr. P. S. Pandit
5.	Odd	PHM-605	Export Oriented Horticulture	1 (1+0)	Dr. J. M. Mayani
6.	Even	PHM-606	Food Additives	2 (1+1)	Dr. A.K. Senapati & Dr. N. V. Patel
7.	Odd	PHM-607	Advances in Processing of Plantation, Spices, Medicinal and Aromatic Plants	3 (3+0)	Dr. N. V. Patel & Dr. A.K. Senapati
8.	Even	PHM-608	Value Addition in Ornamental Crops	2 (1+1)	Dr. J. M. Mayani
9.	Even/ Odd	PHT-691	Doctoral Seminar- I	1 (0+1)	PG Guide
10.	Even/ Odd	PHT-692	Doctoral Seminar- II	1 (0+1)	PG Guide
11.	Even/ Odd	PHT-699	Doctor's Research (Major Subject)	75 (0+75)	PG Guide

12.	Even	FSC- 604	Advanced Lab. Techniques	3 (1+2)	Dr. H. G. Suthar
13.	Even	VSC- 608	Advanced Lab. Techniques for Vegetable crops	3 (1 + 2)	Dr. H. G. Suthar
**Compulsory				Total	100 (15+85)

Practical Manuals Published

Sr. No.	Course No.	Title of the Course	Academic Year
1.	PHT 2.1	Fundamentals Food Science and Technology	2012-13 & 2014-15
2.	PHT 1.1	Fundamentals Food and Nutrition	2017-18
3.	PHT 5.2	Post Harvest Management of Horticultural Crops	2010-11, 2013-14 & 2015-16
4.	PHT 6.3	Processing of Horticultural Crops	2017-18
5.	BSC 1.3	Introductory Microbiology	2017-18
6.	FENG-204	Refrigeration and Equipment Engineering	2019-20
7.	FPT-201	Fish Freezing Technology	2019-20
8.	FPT-202	Fish Packaging Technology	2019-20
9.	FPT-301	Fish Canning Technology	2019-20
10.	PHT 5.2	Post Harvest Management of Horticultural Crops (As per 5 th Dean's Committee)	2021-22
11.	PHT 6.3	Processing of Horticultural Crops (As per 5 th Dean's Committee)	2021-22

Activities under ELP

OBJECTIVES:-

1. To impart orientation for project formulation to establish processing plant.
2. To impart training on processing and value addition for development of entrepreneurship skills in students for self employment.
3. To train the students for quality evaluation of the processed products.
4. To work out economics and breakeven point of processed products.

Model Name: HWE 7.3 - Post harvest handling and value addition in Horticultural Crops		
Year	Students	Revenue Generated (Rs)
2011-12	10	-
2012-13	10	-
2013-14	11	89225
2014-15	18	297255
2015-16	22	412355
2016-17	16	448930
2017-18	29	574085
2018-19	19	428148
2019-20	18	360726

2020-21	25	100210
2021-22	43	93110
2022-23	44	296895
2023-24	42	350190
2024-25	41	On process

		
Aloe vera processing	Mushroom drying	Mango squash
ELP 2022-23		
		
Drumstick/Moringa leaves drying	Guava nectar	Karonda pickle preparation
ELP 2023-24		

**Number of students awarded degree since commencement of
PG programme in the Department**

M.Sc. Horticulture/M.Tech (PHTPE)	Ph. D. Horticulture
74 (M.Sc.) + 5 (M. Tech PHTPE) = 79	16

**Year wise PG student admitted and awarded degree since commencement of
PG programme in the Department**

Year	M.Sc. Horticulture (PHT)		Ph. D. Horticulture (PHT)		M.Tech. (PHTPE)	
	Admitted	Awarded	Admitted	Awarded	Admitted	Awarded
2004	04					
2005	00					
2006	05	02	1			
2007	06	02	1			
2008	03	04	1			
2009	04	07	2	2		
2010	01	03	0	0		
2011	03	04	1	1		
2012	01	01	2	1	2	
2013	06	03	0	1	3	
2014	04	01	2	0		1
2015	04	06	1	0		4
2016	02	04	1	2		
2017	03	04	1	2		
2018	05	02	2	1		
2019	03	03	0	1		
2020	05	05	1	0		
2021	07	03	0	4		
2022	08	05	0	0		
2023	06	07	2	01		
2024	07	08	1	-		
Total	87	74	19	16	05	05

PG students enrolled in Doctoral Programme (2023 - 24 and 2024 -25)

S.N.	Reg. No.	Name of Student	Title of the Research Programme	Major Guide	Year of enrollment
1	1020223005	Mandalik Ganesh Bheemrao	Standardization of protocols for preparation of nutraceuticals from noni (<i>Morinda citrifolia</i> L.) juice	Dr. Dev Raj	2023
2.	1020223010	Sangamesh	Preparation of Innovative Value added Products from Mango (cv. Kesar) and its Waste Utilization	Dr. Dev Raj	2023
3	1020224010	Thakarya Devyaniben Zinabhai	-	Dr. Dev Raj	2024



PG students enrolled in Master Programme (2023 - 24 and 2024 -25)



Sr. No.	Registration No.	Name of Student	Title of the research programme	Major Guide	Year of enrollment
1.	2020223007	Chaudhary Bharatkumar Gajabhai(4 th Sem.)	Development of extruded product by using elephant foot yam (<i>Amorphophallus paeoniifolius</i> L.) powder	Dr. N. V. Patel	2023
2.	2020223017	Movaliya Krinal Bhupatbhai (4 th Sem.)	Studies on preparation of dragon fruit [<i>Hylocereus polyrhizus</i> (Weber) Br. & R] and guava (<i>Psidium guajava</i> L.) blended nectar	Dr. S. L. Sangani	2023
3.	2020223018	Nila B Nair (4 th Sem.) ICAR Student	Utilization of greater yam (<i>Dioscoria alata</i> L.) for preparation of noodles	Dr. N. V. Patel	2023
4.	2020223020	Panchal Yash Dipeshbhai (4 th Sem.)	Production, extraction and characterization of microbial pigments using dragon fruit [<i>Hylocereus polyrhizus</i> (Weber) Br. & R] plant waste	Dr. J. M. Mayani	2023
5.	2020223026	Patel RanilRajeshbhai (4 th Sem.)	Standardization of formulation for preparation of fruit bar from dragon fruit [<i>Hylocereus polyrhizus</i> (Weber) Br. & R] and guava (<i>Psidium guajava</i> L.)	Dr. S. L. Sangani	2023
6.	2020223028	Ramani Ishan Manojbhai (4 th Sem.)	Standardization of protocol for preparation of carbonated sapota nectar	Dr Dev Raj	2023
7.	2020224001	Ajay M. (1 st Sem.) ICAR Student	-	Dr Dev Raj	2024
8.	2020224007	Chaudhary Pransi Kamleshbhai (1 st Sem.)	-	Dr. S. L. Sangani	2024
9.	2020224012	G. Mithinkumar (1 st Sem.) ICAR Student	-	Dr. J. M. Mayani	2024
10.	2020224021	Panwala Anvi Rakeshkumar (1 st Sem.)	-	Dr. J. M. Mayani	2024
11.	2020224022	Patel Maitri Ajaybhai (1 st Sem.)	-	Dr. C. S. Desai	2024
12.	2020224027	Ramjiyani Ramkumar Nashibhai (1 st Sem.)	-	Dr N. V. Patel	2024
13.	2020224031	Trivedi Aditya Parixitbhai (1 st Sem.)	-	Dr. C. S. Desai	2024
Agriculture Microbiology					
14.	2010124110	Suthariya Laresa Mukeshkumar (1 st Sem)		Dr. H. G. Suthar	2024

Post Graduate Students who have cleared NET in the Discipline of Post Harvest Technology

Sr. No.	Name	Year
1.	Chirag S. Desai (04-00011-2004) (Horticulture)	2010
2.	Jilen M. Mayani (04-0265-2006)(Horticulture)	2010
3.	Patel Niketakumari Bhikhubhai (04-0376-2007) (Horticulture)	2010
4.	Arbat Shakti Sahebrao(04-0361-2007) (Horticulture)	2011
5.	Sangani Sandeepkumar L. (04-0383-2007) (Horticulture)	2011
6.	Nazaneen N. Shaikh (04-1343-2012) (Fruit Science)	2015
7.	Vaghashiya Jaysukhbhai M.(1020215013) (Vegetable Science)	2016
8.	Chethan Prasad HP (2020213007) (PHT)- SRF	2016
9.	Tanveer Ahmad Qadeer Ahmad (1020214015) (Fruit Science)	2016
10.	Bhatt Zalakben K. (2020217004) (Vegetable Science)	2019
11.	Raghavendra H. R. (2020217028) (PHT)-SRF	2019
12.	Naik Poojaben Rajeshbhai (1020218008) (Vegetable Science)	2021
13.	Mehul Maganbhai Gohil (1020220006) (Fruit Science)	2021
14.	Vasantha S V (Reg. No. : 2020221042) in Vegetable Science	2023

Medalist Students of the Department

Sr. No.	Name of student	Year
ASPEE Foundation Gold Plated Silver Medal M. Sc. Horticulture		
1.	Patel Niketakumari Bhikhubhai (M.Sc)	2011
2.	Nazaneen Nazeerahammad Shaikh (M. Sc)	2015
3.	Lavanya Tehsildar (2020214019 -M.Sc. PHT)	2017
4.	Madhusudan R. (2020216014 MSc. PHT)	2019
Kalptaru Gold plated silver medal for quality research work related to Banana pseudostem in the subject of PHT		
1.	Raghavendra H. R (2020217028-M.Sc.)	2021
2.	Sushmitha M. B. (2020218046 M.Sc.)	2022
Best thesis award (Gold medal) on the basis of rating of the thesis (January 2019)		
1.	Lavanya Tehsildar (2020214019 -M.Sc.)	2019
ASPEE Foundation Gold Plated Silver Medal for Ph. D. Horticulture		
1.	Arbat Shakti Sahebrao (Ph.D.)	2014
		
Ms. Lavanya Tehsildar (2020214019 -M.Sc.) Recipient of Vice-chancellor Gold medal for best thesis	Raghavendra H. R (2020217028-M.Sc.) Kalptaru Gold plated silver medal for quality research work related to Banana pseudostem in the subject of	

14 th annual convocation (January 2019)	PHT from Chancellor (16 th annual convocation of NAU Navsari (9 th February 2021)
	
<p>Madhusudan R. (2020216014 MSc. PHT)</p> <p>Recipient of ASPEE Foundation Gold plated silver medal for securing highest OGPA and quality of research work in PHT from Chancellor (15th Annual Convocation of the NAU, Navsari (19th December 2019)</p>	<p>Sushmitha M. B. (2020218046 M.Sc.)</p> <p>Recipient of Kalptaru Gold plated silver medal for quality research work related to Banana pseudostem in the subject of PHT from Vice chancellor (17th Annual Convocation of NAU Navsari 8th February, 2022)</p>

SN	Name of Student	Name of Medal	Year
1	Naik Poojaben Rajeshbhai Ph.D. (Horti.) in PHT	“ASPEE Foundation Gold Plated Silver Medal” for M.Sc. (Horti.) Flori. L. A. or PHT	2022-23

	
<p>NaikPoojabenRajeshbhai 18th Annual Convocation Date : 04/03/2023</p>	

Exposure Visits of PG Students

Photo	Photo
Add caption	Add caption

RESEARCH ACTIVITIES

Focus Areas

- ❖ Development of cool chain, low cost storage, handling and packaging techniques.
- ❖ Exploration of plant extracts in extension of storage life of fruits and vegetables.
- ❖ Development of processes for the preparation of instant and extruded food products.
- ❖ Development of technology for processing and value addition of wild fruits.
- ❖ Preparation of natural flavonoids, antioxidants, bio-colours and health foods.
- ❖ Research on fungal toxins occurrence and remedies in cereals, fruits, nuts and their products (e.g. patulin, aflatoxin, rubratoxin, fumonisin, ochratoxin etc).
- ❖ Development of convenient and functional processed products by incorporation of milk, milk products, oat, linseed, soybean, sunflower seed into fruit and vegetable products.
- ❖ Development and evaluation of natural colour from fruits and vegetables
- ❖ Establishment of HACCP protocols for different food commodities for TQM
- ❖ New convenience value added food products from wastes of fruit and vegetable industry.
- ❖ Technology for the preparation of health oriented appetizer, nectar, jam, squash, chutney, leather, toffee, instant powder etc.
- ❖ Screening of tomato varieties & hybrids for the preparation of juice, puree, paste, ketchup & canning.
- ❖ Technology for preparation of low calorie health drinks from fruits & vegetables.
- ❖ Technology for the preparation of dehydration of fruits and vegetables.
- ❖ Osmo-canning technology for suitable fruits and vegetables.
- ❖ Development of fruit juice based carbonated beverages.
- ❖ Development of technology for extraction of pectin & essence from mango waste. Utilization of mango peel for conversion of edible products.
- ❖ Development of protocol for extension of storage life of cut flower crops.
- ❖ To provide community canning services to the university employees and nearby farmers.

Research Schemes in Operation

SN	Title of Research Project	Year of Commencement & Budget Head	PI & Co-PI	Funding Agency
1	Centre of Excellence on Post Harvest Technology	2004-05 B.H.-12935	Dr. Dev Raj	Govt. of Gujarat (Plan)
2	Strengthening of P.G. Programme of Post Harvest Technology & Process Engineering (Phase-II)	2010-11 B.H.-12244	Dr. Dev Raj	Govt. of Gujarat (Plan)
3	Establishment of Fruits and Vegetable Packaging Research Station Including Seeds	2009-10 B.H.-12940	Dr. Dev Raj	Govt. of Gujarat (Plan)

Objectives of scheme

1. Center of Excellence on Post Harvest Technology (BH: 12935)

Objectives:

- To conduct basic and applied research in the area of handling, preservation, storage and processing of major horticultural crops.
- To impart education on post harvest technology.
- Testing of the developed technologies on commercial scale.
- Training of the entrepreneurs.
- Technology transfer to farmers and industries.
- To provide advisory and consultancy services to agro processing industries.

2. Strengthening of P.G. Programme of Post Harvest Technology & Process Engineering (Phase-II) (BH: 12244)- (now P.G. Programme on PHT of Horticultural Crops)

Objectives:

- To establish PG faculty of Post Harvest Technology & Process Engineering
- Diversification and upgradation to Post Harvest Technology & Process Engineering education research and extension

3. Establishment of Fruits and Vegetable Packaging Research Station Including Seeds (BH: 12940)

Objectives:

- To conduct applied research work on the subject of post harvest packaging, storage and transportation of fruits and vegetables as well as seed.
- To popularize the methods and techniques of post harvest handling of fruits and vegetables as well as seed to avoid post harvest losses as per client specific requirement,
- To provide all the basic facilities of Pack House on rental basis to the farmers, merchants, processors and Exporters.
- To provide advisory and consultancy services to fresh supply chain and processing to industries for the export.

EXTERNALLY FUNDED PROJECTS

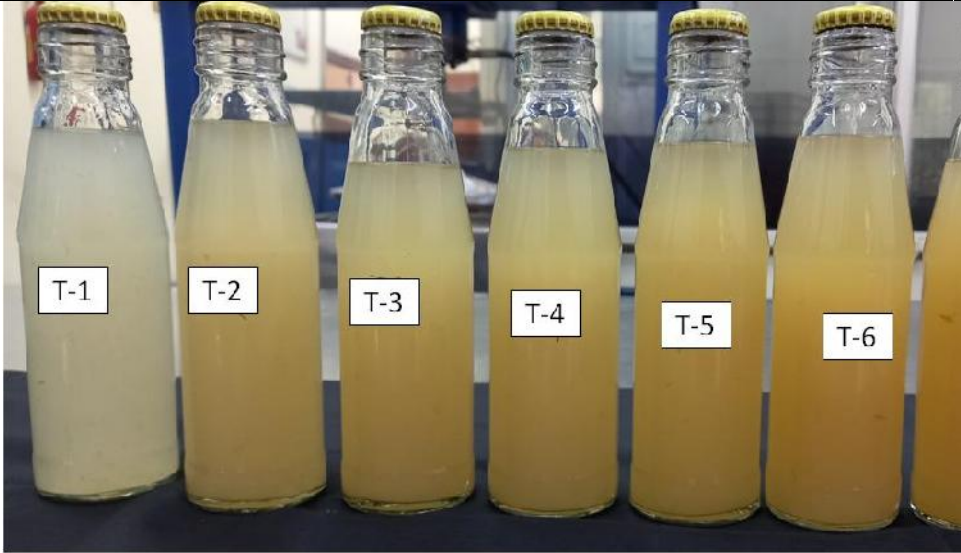
- ❖ Processing and value addition of Horticultural Produce under National Agricultural Higher Education Project under CAAST (ICAR)
- ❖ Performance evaluation of Conveyor type Hot Water System for Biter Gourd

: Research Recommendations:

Year : 2023-24 (20th AGRESO)

S.N.	Title of Experiment and Recommendation	Name of PI / Co-PI/ Associate
1	<p>Title: Standardization of process technology for the preparation of Aloe vera and Aonla blended juice ભલામણનુશાષકઃએલોવીરા - આમળાનામાક્ષરસબનાવવામાટનાવકસાતપચ્યા</p> <p>Recommendation</p> <p>પ્રાસસરા ર ઉત્પાદકાન (ક, એલાવારાઅનઆમળાનામાક્ષરસબનાવવામાટઉપ: માણમુજબ ગ્રામખાડપ્રાતપા િ િ સમાંઉમેરીટી.એર. નુંપ્રમાણપરબ્રીક્ષજાળવીસંચાલકગ્રામઅનેઆદુનોરસ</p>	<p>Dr. Dev Raj Dr. N. V. Patel Dr. A. K. Senapati Dr. H.G. Suthar</p>

પ્રાતલાટર માક્ષ રસ પ્રમાણ ત્યારબાદ માક્ષરસને \pm °
 મીનીટ સુધી ગરમ કરાકા યની બોટલ માલયાબાદ \pm ° માનાટ સુ
 ધાગર મકરવું આરી તે પેક કરેલ મીક્ષરસને \pm માસ સુધી સામાન્યતા પમાન
 સંગ્રહ કરી શકાય છે.



એલોવીરા-આમળાનો મીક્ષ રસ

2 **Title:** Standardization of suitable treatments for preparation of osmo-air dehydrated mango (*Mangifera indica* L.) slices
 કસર કરાના ચારા આસ્મા- દ્વારા સુકવણાક માટના ૧૦ પચ્યાત
Recommendation
 પ્રાસસરા અનુત્પાદકાન ભલામણ કરવા મા આ વછક, કસર કરાના ફળા માથા આસ્મા-
 એર દ્વારા સુકવણી કરીને ચીરી ઓતૈયાર કરવા માટે કેરીને ઉતાર્યા પછી છશ્ઠાદિ વસે ૧.૫ ±
 મીજા ડાઈની ચીરી ઓને 40° બ્રિક્ષખાંડની ચા સણીવાળા ઓસ્મોટીક
 કલાક ઓસ્મોટીક ટ્રાટ મન્ટ આપ્યાબાદ \pm %
 ભજનુ પ્રમાણ રહેત્યાં સુધી કે બિનેટ ડ્રાયર દ્વારા સુક પચ્યાત થા
 ઓસ્મો-એર સુકવણી કરેલ ચીરી ઓમ % ઉત્પાદન આણુ બ્રાઉનાગ
 વચારે -કેરોટીન સારા સ્વીકાર્યતા ધરાવે છે. ઓસ્મા-
 અર સુકવણી કરેલ ચારા આનો ઉત્પાદન ખ રૂ. પ્રતિકિલો
 માઈક્રોન પોલી પ્રો પીલીનની થેલાં મા સામાન્યતા પમાન કમહિના સુધી સંગ્રહ કરા શકા

Dr. Dev Raj
 Dr. Y. N. Tandel
 Dr J. M. Patel



<p>કસર કસર આસ્મા: સુકવણા રત્ન ચારાઆ</p>		
<p>3. Title: Standardization of formulation for preparation of fruit bar from sapota pulp</p> <p>યાકુ પલ્પ શરડાના આધારાત યાકુબાર ૦ માટના ૧૫ પચ્યાત</p> <p>Recommendation</p> <p>પ્રાસસરા ૪ ઉત્પાદકા ક, યાકુ ૦ માટ કરીના અ શેરડીનો પ્રમાણ મુજબ માક્ષ કરી, ૧૫ % પક્ટાન ઉમેરી, બ્રાઈડિંગ ત્યાસુધા ખુલ્લા કરાત પાટશીયમ મટાબાયસલ્ફાઇટ ઉમેરવુ. ત્યારબાદ આમાશ્રણ જાડાઇનું ૦.૫ ટ્રેમાંપાયરી, ± ૦.૫ % ભેજનું પ્રમાણ વાઇરલ આસ્મેનિને ટ્રાયર સુકવણુ આરાતે ૧૫ યાકુબારના રિ. * * * * * ટુકડા ૬ માઇક્રાન ડી. પડવા વધારે આઇરનનું પ્રમાણ સ્વાકાચતા ૪ સુધા સામાન્ય સંગ્રહકરે.</p>	<p>Dr. Dev Raj Dr. A. K. Senapati Dr. N. V. Patel Dr F . M. Sahu</p>	



<p>યાકુ પલ્પ અનશરડાના રસમાથાબનાવલ યાકુબાર</p>		
<p>4. Title: Studies on quality of thermally processed Oyster Mushroom during storage</p> <p>ઢાગરા મુશરૂમના ડબ્બાબધા માટના ૧૬ પચ્યાત</p>	<p>Dr. H.G. Suthar (PI) Dr. Dev Raj</p>	

	<p>Recommendation</p> <p>પ્રાસસસ ઉઘાગસાહસકા આવછક ઢાગરા મુશરૂમન સારા ગુણવત્તા મહિનાસુધી સગ્રાહત ગ્રા. ક્ષમતાવાળા ટીનકેનમાં નીચે દર્શાવતા પ્રમાણે અનુસરી</p> <p>મુશરૂમને 0.00 % પોટેશિયમ મટાબાઈસલ્ફાઇટ ના દ્રાવણમાં ઘેરું દબ્લાવવાનું કરવું. ગ્રા. મુશરૂમને 0.00 % સોડિયમ ક્લોરાઇડ ના 0.00 % સાઈટ્રિક એસિડ ના દ્રાવણથી કવર કરવું, જેકોન્સ્ટન્ટ સામગ્રી ડિગ્રા સાલ્સવસ મોટા ભાગે ટીનકેનમાં પાણામારૂબાડા</p>	Dr. A. K. Senapati
		
<p>ડબ્લાવવાકરતાઢાગરામુશરૂમ</p>		

Year : 2022-23 (19th AGRESO)

S.N.	Title of Experiment and Recommendation	Name of PI / Co-PI/ Associate
1	<p>Title: Standardization of method for extraction of passion fruits (<i>Passiflora edulis</i>) juice.</p> <p>Recommendation</p> <p>Processors and entrepreneurs are recommended to extract passion juice by treating scooped pulpy seeds with combination of 0.05% pectinase and 0.05% cellulose for 2 hours to get higher juice recovery. The juice after extraction must be filtered, pasteurized (96°C), packed in glass bottles followed by processing (96±1°C) for 30 min. The packed juice has storage stability for 6 months at ambient temperature.</p>	Dr. Dev Raj Dr. N. V. Patel Dr. A. K. Senapati
2	<p>Title: Development of value added blended spiced squash using passion</p>	Dr. N. V. Patel

<p>(<i>Passifloraedulis</i>) and bael (<i>Aegle marmelosL.</i>) fruits</p> <p>Recommendation</p> <p>It is recommended to the processors, and entrepreneurs that passion and bael fruits pulp can be blended for preparation of spiced squash using 25 per cent pulp (5:20 pulp proportion of passion:bael fruits) by maintaining with 45 °Brix TSS and 1 per cent acidity along with spices and salts. The potassium meta-bisulphite @ 700 ppm should be added at the end of thermal processing (96 ± 1 °C for 15 minutes) followed by hot filling in PET bottles. The blended spiced squash can be stored up to 9 months at ambient temperature.</p>	<p>Dr. Dev Raj Dr. A. K. Senapati</p>
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Photograph with caption

Recommendation-1

















		
<p>1. Passion Fruits</p>	<p>2. Scooping of pulp and seeds</p>	<p>3. Enzyme treatments</p>
		
<p>4. Juice and Seed separation</p>	<p>5. Filtration</p>	<p>6. Pre-heating</p>
		
<p>7. Pasteurization</p>	<p>8. Storage (Passion fruit juice)</p>	

Plate 1. Process steps for preparation of passion fruit juice




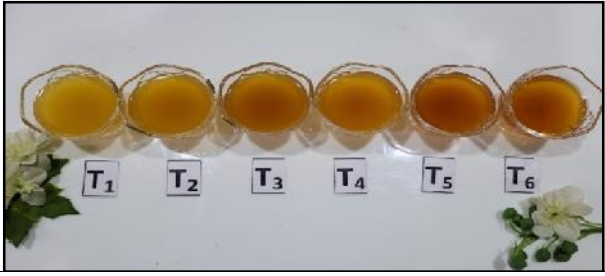
Recommendation-2

Methodology:

			
<p>1. Passion fruits</p>	<p>2. Bael fruits</p>	<p>3. Passion fruit pulp</p>	<p>4. Bael fruit pulp</p>

			
5. Sugar syrup with spices	6. Mixing of pulp	7. Bottle filling	8. Spiced squash
Plate 2. Process steps for preparation of spiced squash			

Experimental Result:

Over view of treatment wise spiced squash	
	
Initial	9 month storage
Over view of treatment wise diluted spiced squash	
	
Initial	9 month storage





Year : 2023-24 (20th AGRESCO)

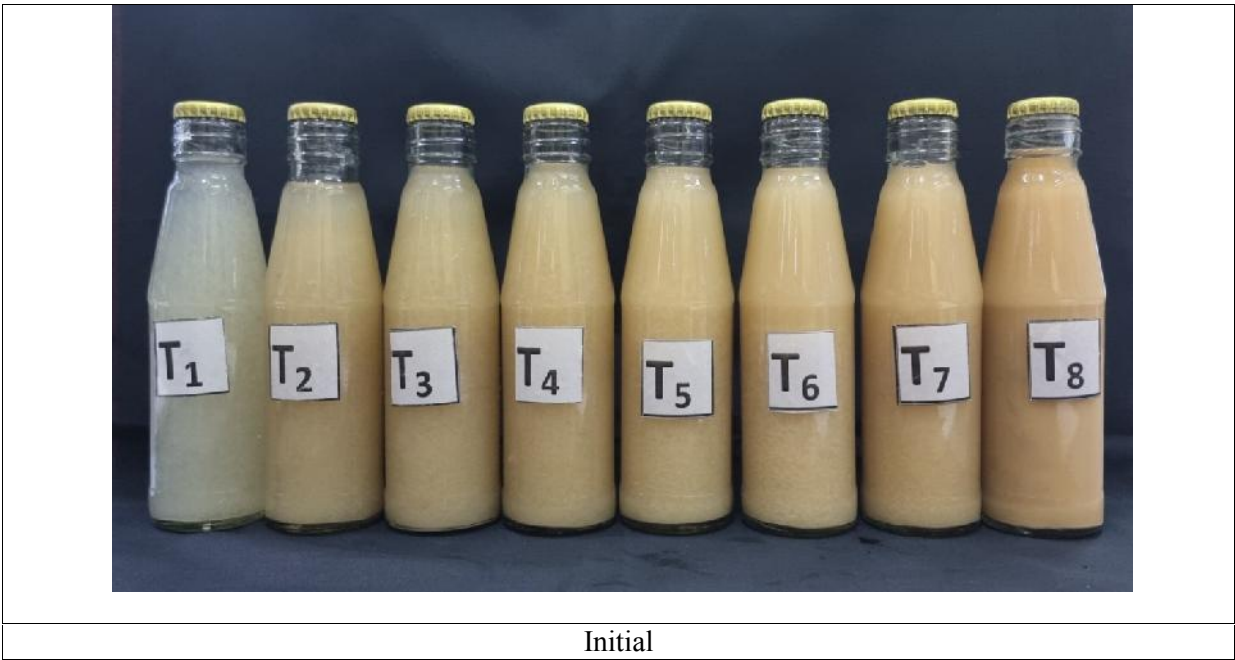
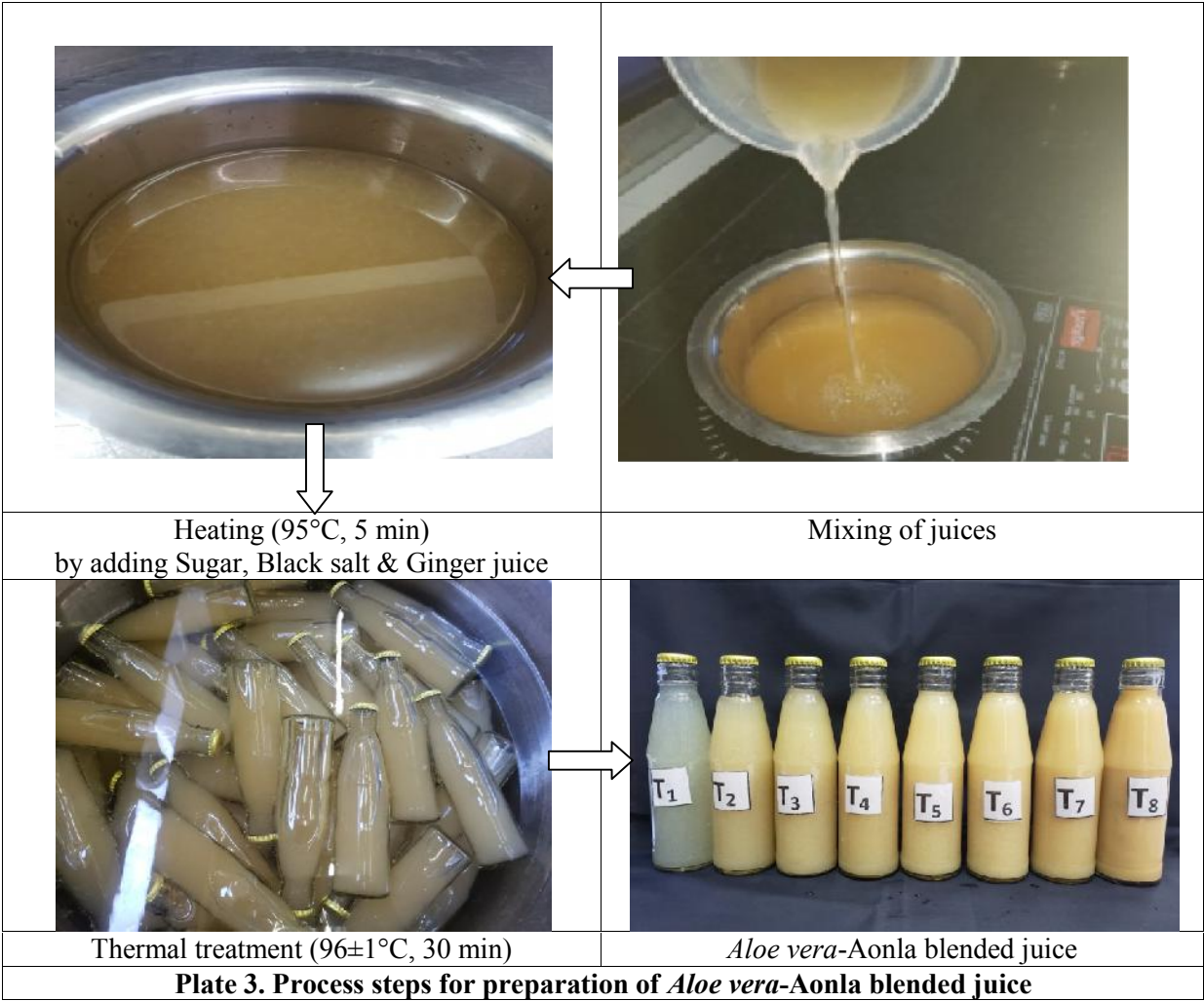
S.N.	Title of Experiment and Recommendation	Name of PI / Co-PI/ Associate
1	<p>Title: Standardization of process technology for the preparation of Aloe vera and Aonlablended juice</p> <p>Recommendation</p> <p>Processors and entrepreneurs associated with juice processing are recommended to produce blended juice with 75:25 proportion of Aloe vera :aonla juice by maintaining 12 °Brix TSS along with black salt 3 g and ginger juice 3 ml per liter blended juice. The blended juice must be heated (95±1°C for 5 minutes) and packed in glass bottles followed by thermal processing (95±1°C) for 30 minutes. The packed juice has storage stability for 8 months at ambient temperature</p>	Dr. Dev Raj Dr. N. V. Patel Dr. A. K. Senapati Dr. H. G. Suthar
2	<p>Title: Standardization of suitable treatments for preparation of osmo-air dehydrated mango (<i>Mangifera indica</i> L.) slices</p> <p>Recommendation</p> <p>Processors and entrepreneurs are recommended to prepared osmo-air dehydrated mango slices from mango fruits after 6th day of harvesting by giving overnight osmotic dip treatment to 1.5±2cm thick slices with osmotic solution (sugar syrup) of 60°Brix at 40°C followed by air drying till moisture</p>	Dr. Dev Raj Dr. Y. N. Tandel Dr. J. M. Mayani

	content of $15 \pm 0.4\%$. The osmo-air dehydrated mango slices prepared by this technique possess lower NEB along with higher beta-carotene and overall acceptability score. The osmo-air dehydrated mango slices had storage stability of six months in 380-gauge PP bags at ambient temperature	
3	<p>Title:Standardization of formulation for preparation of fruit bar from sapota pulp</p> <p>Recommendation</p> <p>Processors and entrepreneurs are recommended to adopt technology developed by Navsari Agricultural University for preparation of Sapota fruit bar by mixing 60% Sapota pulp and 40% sugarcane juice with 100 ppm potassium metabisulphite (KMS) along with 0.5% pectin followed by open pan heat concentration upto 40°Brix TSS and then pouring and spreading 10mm thick layer of mixture on SS trays and drying in cabinet air dryer at 60°C till final moisture of $16 \pm 0.5\%$. Sapota fruit bar pieces (2.5x2.5x0.6 cm) packed in 380gauge HDPE bags possesses lower non-enzymatic browning, higher iron content and overall acceptability and remains shelf stable up to 9 months at ambient temperature storage</p>	Dr. Dev Raj Dr. A. K. Senapati Dr. N. V. Patel Dr. F. M. Sahu
4	<p>Title: Studies on quality of thermally processed Oyster Mushroom during storage</p> <p>Recommendation</p> <p>Farmers, processors, and entrepreneurs are recommended to preserve the oyster mushroom in rust freetin can by following process steps like; mushroom cleaning, blanching, filling with solution containing 2 % NaCl and 0.05 % citric acid in tin can, exhausting, seaming, retorting at 121°C for 35 min and cooling. The canned oyster mushroom can be stored and utilized up to 6 months</p>	Dr. H. G. Suthar Dr. Dev Raj Dr. A. K. Senapati

Photograph with caption

Recommendation-1

	
↓ <i>Aloe vera slips</i>	↓ <i>Aonla fruits</i>
	
<i>Aloe vera juice</i>	<i>Aonla juice</i>
	↓





8 Months of storage

Plate 4. Over view of treatment wise *Aloe vera*-Aonla blended juice

Recommendation-2



Fresh Mangoes After Harvesting (Initial day)

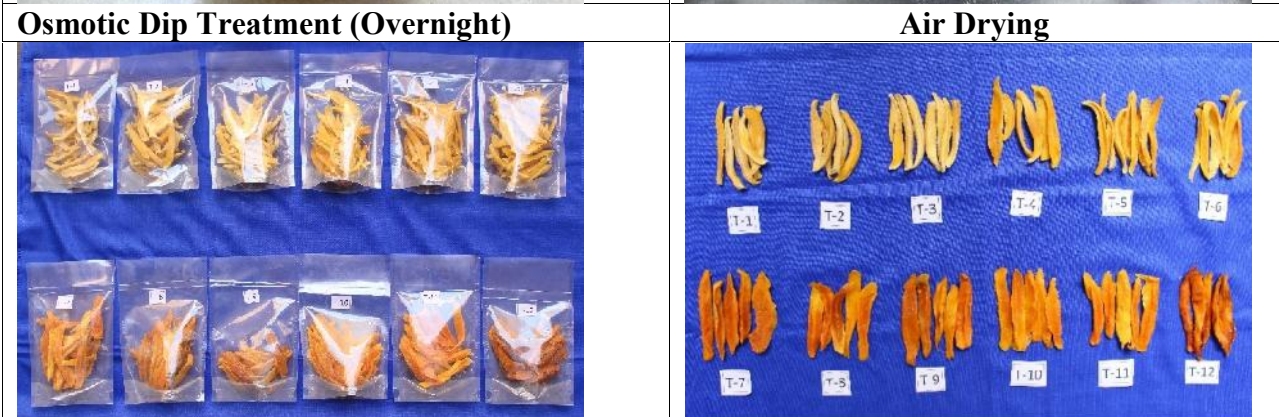
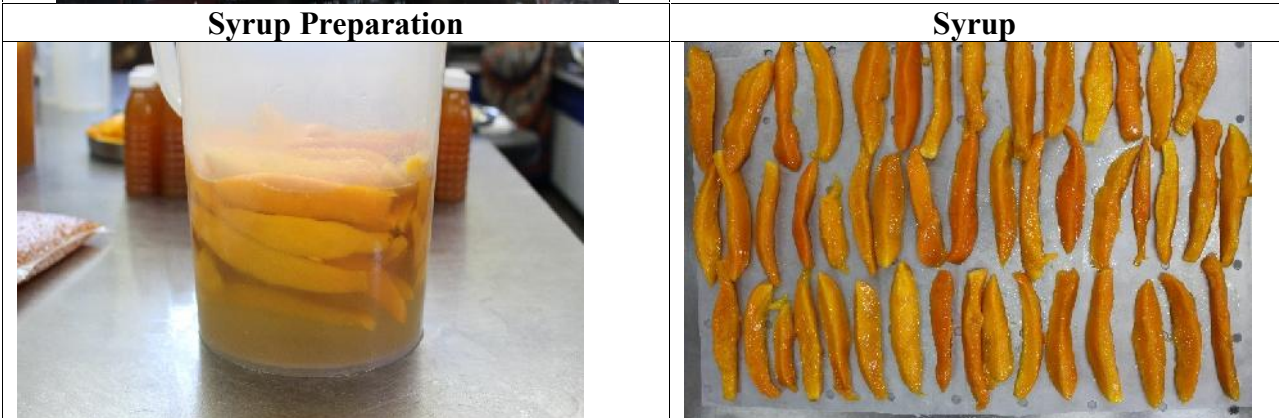
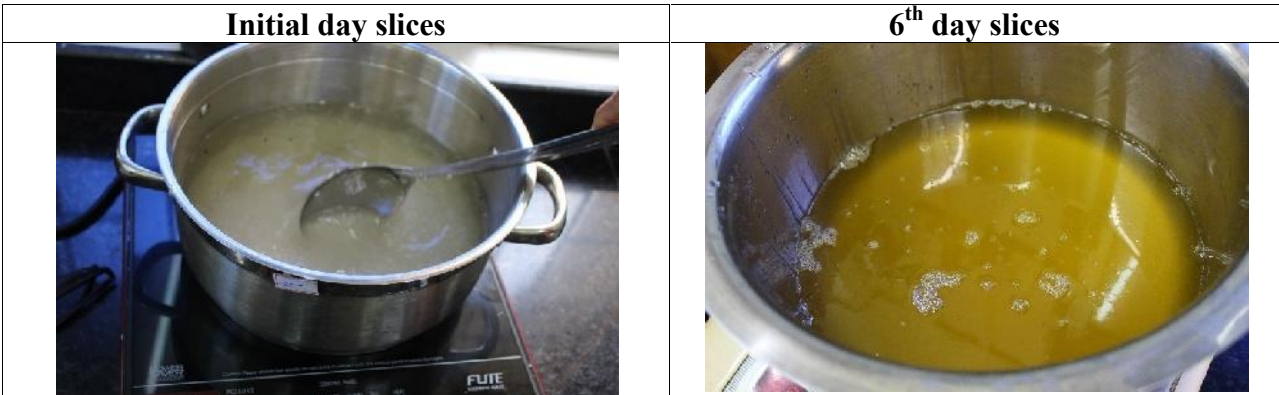


Initial day



6th Day





Packing of the Osmo-air dehydrated mango slices
Steps used for preparation of Osmo-air dehydrated mango slices)

Recommendation 3

		
<p>Ripen Sapota</p>	<p>Sapota Pulp</p>	<p>Sugarcane Juice</p>
		
<p>Heating of mixed sapota pulp and sugarcane juice</p>	<p>Inside view of dryer</p>	<p>Drying of pulp in Tray dryer at 60°C</p>
		
<p>Preparation of bar</p>	<p>Dried pieces of bar</p>	<p>380 G HDPE packed bar</p>
<p>Fig. 1:Process Steps for preparation of bar from sapota pulp and sugarcane juice</p>		



Fig 2. Treatments overview of the sapota fruit bar

Recommendation 4



Figure 1: (1) Oyster mushroom, (2) Blanching (3) Water drain from blanched oyster mushroom (4) Weighing (5) Oyster mushroom bottles (6) filling in containers (7) Seaming (8) Retorting (9) Cooling.

Our Products

PHT 2022-23

S.N.	Planting material/ Processed products	Crop and Cultivar	Quantity (No. of bottles/packets)
1.	Mango nectar (200 ml)	-	2516
2.	Guava nectar (200 ml)	-	6968
3.	Pineapple nectar (200 ml)	-	2388
4.	Orange nectar (200 ml)	-	1594
5.	Pineapple squash (750 ml)	-	262
6.	Guava squash (750 ml)	-	279
7.	Mango squash (750 ml)	-	160
8.	Orange squash (750 ml)	-	93
9.	Noni juice (200 ml)	-	56
10.	Mix Pasta (200 g)	-	274
11.	Mango pulp (Bottle-1 kg)	-	69
12.	Tuttifruiti (200 g)	-	48
13.	Aonla juice (500 ml)	-	196
14.	Mango pickles (250 g)	-	52
15.	Mango pickles (500 g)	-	12
16.	Mix fruit jam (500 g)	-	46
17.	KasuriMethi (30 g)	-	35
18.	Tomato ketchup (500 g)	-	17
19.	Banana wafers (200 g)	-	150
20.	Mix vegetable pickles (250 g)	-	17
21.	Mix vegetable pickles (500 g)	-	10
22.	Aloe vera juice (500 ml)	-	6
23.	Tomato Chutney (250 g)	-	16
24.	Tomato Chutney (500 g)	-	2
25.	Aonla Candy (100 g)	-	56

Photograph :



Mango nectar







Guava nectar



Orange nectar



Pineapple nectar

	
Aloe vera juice	Noni juice
	
Kasuri Methi	Guava squash
PHT : Processed products	

EXTENSION ACTIVITIES

1. Farmers Training (2022-23)

S.N.	Date	Place	Name of activity	Name of Faculty	Number of farmers Participate
1	24/05/2022	PHTC, ACH, NAU	1 day training on 'mango processing' organized by Dept. of PHT	Dr. J. M. Mayani	21
1	04/06/2022	Anavilwadi, Kaliyawadi, Navsari	1 day training on 'Fruit beverages' organized by Dept. of PHT & AnavilSanskar Trust, Navsari	Dr. Dev Raj Dr. N. V. Patel	44 (Farm women & Home makers)
2	29/06/2022	JAU, Junagadh	2 days training on 'Mango Nectar, squash, pulp, aampapad Preparation' organized by IARI and JAU, Junagadh	Dr. Dev Raj	60 (Farm women & Home makers)
3	21/03/2023 to 23/03/2023	Dept. Of PHT (association with OmkarSewaSansthan, Teh.- Gauriganj, Dist.- Amethi, UP)	3 days training on 'Post Harvest Management, Processing and Value addition in Fruits and Vegetables'	PHT Faculties	25 (farmers from Amethi, UP)
4	27/03/2023 to 31/03/2023	Dept. Of PHT (collaboration with Dist. Implementation Unit, Smart Project, Nandurbar, MH and association with	5 days training on 'Post Harvest Technologies for value addition of Fruits and Vegetables'	PHT Faculties	20 (farmers from Nandurbar, MH)

Photographs :



Training on “Fruit beverages” at Avavilwadi, Navsari on 04/06/2022



Training on “Mango Nectar, squash, pulp, aampapad Preparation” at JAU, Junagadh on 29/06/2022



Farmers training on ‘Post Harvest Management, Processing and Value addition in Fruits and Vegetables’ at Department of Post Harvest Technology, ACH, NAU from 21-23/03/2023



Farmers training on 'Post Harvest Technologies for value addition of Fruits and Vegetables' at Department of Post Harvest Technology, ACH, NAU from 27-31/03/2023

2. RAWE Programme

Sr. No.	Date	No. of Days	Subject	No. of Students	Value	Organised by
1	During April-May 2023	1 day single visits	8 th sem RHWE-8.1 Visit to progressive farmer's field and NGO	68		Dr. A. I. Patel Dr. P. P. Bhalerao Dr. P. D. Solanki Dr. Nilam V. Patel
2	During April-May 2023	1 day single visits	8 th sem RHWE-8.3 University farms (JAU) and private horticultural field visit of Saurashtra region	68		Dr. K. P. Suthar Dr. F. M. Sahu Dr. Himani B. Patel
3	During April-May 2023	1 day single visits	8 th sem RHWE-8.4 University farms (AAU) and private horticultural field visit of Middle Gujarat region	68		Dr. F. M. Sahu Dr. K. P. Suthar Dr. Himani B. Patel
4	During April-May 2023	1 day single visits	8 th sem RHWE-8.5 University farms (SDAU) and private horticultural field visit of	68		Dr. Himani B. Patel Dr. K. P. Suthar Dr. F. M. Sahu

			North Gujarat region			
5	During April-May 2023	1 day single visits	8 th semRHWE-8.6 University farms (NAU) and private horticultural field visit of South Gujarat region	68		Dr. A. I. Patel Dr. P. P. Bhalerao Dr. P. D. Solanki Dr. Nilam V. Patel

Photograph :



KVK, Waghai Dt.: 06/05/2023

Bhadarpada farm Dt.:06/05/2023

Gadat co-operativeMandali Dt.: 10/05/2023

Ambika farm Dt.: 06/05/2023

3. Lecture delivered to farmers training

Sr. No.	Date	No. of beneficiary	Subject	Vanue	Training organised by	Name of Faculty
1	26/05/2022	30	Value addition in Fruits and Vegetables	SSK, NAU, Navsari	ATMA Project Amreli	Dr. N.V.Patel
2	16/06/2022	36	Post Harvest Management in Fruits and Vegetables	FTC, Navsari	FTC, Navsari	Dr. N.V.Patel
3	27/3/2023	20	Technologies for Jam and Jelly from fruits	PHTC, ACH, NAU	PHTC, ACH, NAU	Dr. H.G. Suthar
4	01/07/2022	31	Post Harvest Management of Fruits and Vegetables	FTC, Navsari	Deputy Director Agriculture (Training), Navsari	Dr.N.V.Patel
5	05/07/2022	24	Value addition in	FTC,	Deputy Director	Dr.N.V.Patel

			Fruits and Vegetables	Navsari	Agriculture (Training), Navsari	
6	23/08/2022	43	Value addition in sapota	Swami Vivekanda Hall, ACH, NAU	Dept. of Fruit Science, ACH, NAU	Dr.J.M.Mayani
6	02/09/2022	28	Value addition in coconut	Kodinar	ACHF, NAU	Dr.J.M.Mayani
7	04/01/2023	30	Post Harvest Management in Fruits and Vegetables	FTC, Navsari	FTC, Navsari	Dr. N.V.Patel
8	08/02/2023	27	PHM and Value addition in Horticultural crops	FTC, Navsari	FTC, Navsari	Dr. N.V.Patel
9	21/03/2023	25	Importance of PHM, Processing & value addition in Fruits and Vegetables	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. Dev Raj
10	21/03/2023	25	Banana wafers	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. N.V.Patel
11	21/03/2023	25	Post Harvest Management & ripening of Banana	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. P. S. Pandit
12	22/03/2023	25	Water melon candy	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. Dev Raj
13	22/03/2023	25	Fruit juice beverages	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. A. K. Senapati
14	23/03/2023	25	Utilization of banana peel for value addition	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. A. K. Senapati
15	27/03/2023	9	Status of PHT	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. P. S. Pandit
16	27/03/2023	9	Techniques of PHM	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. Dev Raj
17	27/03/2023	9	Utilization of banana pseudostem	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. J. M. Mayani
18	28/03/2023	9	Jam and jelly	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. H. G. Suthar
19	28/03/2023	9	RTS and Squash	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. F. M. Sahu
20	28/03/2023	9	Candies and preserves	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. Niketa Patel

21	28/03/2023	9	Vegetable chutneys	PHTC, ACH, NAU	Dept. of PHT, ACH, NAU	Dr. N. V. Patel
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Photograph :



Lecture delivered during farmers training at FTC, Navsari



Lecture delivered during farmers training at SSK, NAU, Navsari

4. Exhibition

Sr. No.	Date	No. of days	Event	Vanue	Name of faculty
1	30/04/2022	1	Krishi-mela 2022	KVK, Navsari	Dr.N.V.Patel
2	29-30/06/2022	2	National level seminar on Statistics	Int. Exam Hall, NAU, Navsari	Dr. A.K.Senapati Dr. F.M.Sahu Dr.H.G.Suthar
3	27-30/09/2022	4	Exhibition-cum-sale under ELP on 'Horticulture for Health and Happiness'	ACHF, NAU, Navsari	PHT Faculties
4	13-15/10/2022	3	National seminar organized by College of Forestry, NAU, Navsari	Central Exam. Hall, NAU, Navsari	PHT Faculties
5	23-24/11/2022	2	VCs conference	VIP guest house, NAU	Dr. Dev Raj Dr. N. V. Patel
6	7-9/12/2022	3	'Winter Bloom' Exhibition	Floriculture Nursery, ACHF, NAU	PHT Faculties
7	24-25/12/2022	2	National seminar organized by College of Forestry & KVK, NAU, Navsari	Central Exam. Hall, NAU, Navsari	PHT Faculties

Photograph:



Stall exhibition during National level seminar on Statistics at NAU Dt. 29-30/06/2022



Exhibition-cum-sale under ELP at ACHF, NAU Date : 27/09/2022



Stall exhibition during VCs Conference at VIP Guest house, NAU Dt. 23-24/11/2022

TRANSFER OF TECHNOLOGY (ToT)

Visit of PHTC by students/ farmers/ officers/ entrepreneurs (2022-23)

Sr. No.	Category	No. of Visitors	Vaneue	Remark
1	Dignitaries/VIPs	37	PHTC	-
2	Entrepreneurs	-	-	-
3	Officers	31	PHTC	-
4	Students	448	PHTC	-
5	Farmers	139	PHTC	-
TOTAL		655		

Photograph :



Visit of PHTC by RHWE students



Visit of PHTC by farmers

TRANSFER OF TECHNOLOGY (ToT)



**Horticulture officer training on Processing and value addition of Horticultural Produce (6th -8th February, 2024) at centre of excellence on PHT, ACH, NAU Navsari
Sponsored by State Horticulture Mission, Vadodara Division, GoG, Gandhinagar**

Infrastructure Available

Department

Department has excellent facilities for Teaching, Research & Development and Extension pertaining to Post Harvest Technology of Horticultural crops. Department of Post Harvest Technology has following facilities for Teaching, Research & Development and Extension:

- Food Product R&DLaboratory
- Quality ControlLaboratory
- Food MicrobiologyLaboratory
- SensoryLaboratory
- Post Harvest Physiology and PackagingLaboratory
- Post Harvest Engineeringlaboratory
- UGLaboratory
- Computer Net-WorkingLaboratory
- Seminar / conference Room well equipped with e- teachingaids

FACILITIES AVAILABLE IN LABORATORIES

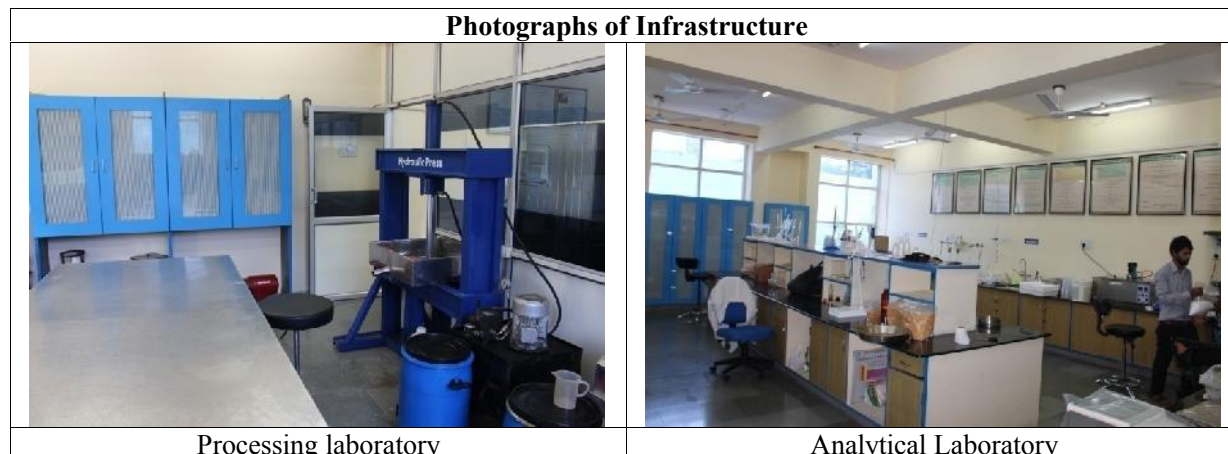
Autoclave	Blade Mixer	Blanching Tank
BOD Incubator	BOD Portable Meter	Bomb Calorimeter
Box Compression Tester	Box Drop Tester	Bulk Density Meter
Colorimeter	Colony Counter	Deep Freezers
Digital pH Meter	Digital Refractometer	Digital Vernier Caliper
Double Seamer	Extruder	Fermenter
Filter Press	Flanger Hand	Freeze Dryer (lyophilizer)
Gas Analyser	Homogenizer	Hot Air Oven
Hot water Treatment Plant	Hydraulic Juice Press	Ice Flaking Machine
Incubator Shaker	Infrared Dryer	Infrared Moisture Balance
Kjeldal Distillation Apparatus	Laminar Air Flow	Mechanical Dehydrator
Microscope with Camera	Microwave Oven	Moisture Analyser
Multiparameter Meter	N ₂ Estimation Apparatus	Online Data Logger
PE gauge Meter	Pulveriser	Reformer
Refrigerated Centrifuge	Rheometer	Rotary Flat Can Body
Shrink wrapped Machine	Size Grader	Spectrophotometer
Texture Analyser	Vacuum Dryer	Vacuum Packaging Unit
Vibration Testing Machine	Water activity Meter	Water Vapour Transmission Rate Meter
Waxing Machine	Weighing Balance	Weight Grader
PCR - Thermo cyler	Electrophoresis Unit	Emulsifier
Flame Photometer	Mini-centrifuge	Magnetic stirrer
Tintometer	Hot Twin Screw Extruder	Laboratory Spray Dryer
Carbonation Unit	Micro-encasulation Unit	Multi parameter Tester
Ice cream making unit	Fluidized bed dryer	

ADDITIONAL EXCELLENCE INFRASTRUCTURE

- Centre of Excellence on Post Harvest Technology
- **Mango and Tomato Processing Plant having capacity of 500 kg per 8 hours**
- **Onion Dehydration Plant having capacity of 2 tonnes per 8 hours**
- **Juice Processing Line having capacity of 50 litre per hour**
- **Banana Processing Plant**
- **Low Temperature Storage Structure having 20T capacity**
- **Pre-Cooling Unit having 2.5T capacity**
- **Fruit Ripening Chambers having 6T capacity**
- **Controlled Atmosphere Storage Unit having 3T capacity**
- **R.O. Water filtration Unit having 1200 L/hr capacity**
- **Freeze Drying Unit**
- **Heavy duty Spray Dryers**
- **Packaging Infrastructure**
- **Generator with Power backup facility**

S.N.	Infrastructure or Facilities available	Area/No.
1	Processing laboratory	1
2	Analytical Laboratory	1
3	Packaging Laboratory	1
4	Sensory Laboratory	1
5	Food Microbiology Laboratory	1
6	Conference hall	1
7	Mango Processing Plant	1
8	Dehydration Plant	1
9	e-class room (smart class)	1 (48 seating capacity)

Photographs of Infrastructure





Packaging Laboratory



Sensory Laboratory



Food Microbiology Laboratory



Conference hall



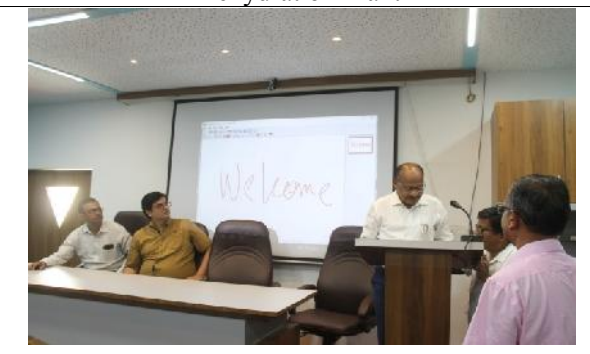
Mango Processing Plant



Dehydration Plant



e-class room (smart class) with 48 seating capacity



Dignitaries Visit: Glimpses

Information regarding visit of Hon'ble Vice Chancellor / Dignitaries during last year 2023-24 and 2024-25

Year : 2023-24 and 2024-25

Sr. No.	VIPs/ Guests	Designation and Address	Date of Visit
1.	Dr. Anuradha Agrawal	National Coordinator, CAAST, NAHEP, ICAR, New Delhi	04/12/2023
2.	Kim Jong Ho	Seoul , Korea	20/12/2023
3.	Dr R. M. Sharma	Principal Scientist, FHT, ICAR, New Delhi	23/01/2024
4.	Dr. Manish Srivastav	Professor, FHT, ICAR, New Delhi	23/01/2024
5.	Dr. B. A. Jerard	Project Coordinator (Palm) , AICRP on Palm, ICAR-CPCRI, Kasargad	01/06/2024
6.	Shri. Kanwal Singh Chauhan	GB member-ICAR, Padmashree Awardee Farmer	05/07/2024
7.	Shri. Parsanjeet Kaur	IAS Probationer, Valsad	12/09/2024
8.	Ms. Vaishali R,	IAS Probationer, Navsari	12/09/2024
9.	Dr. S. N. Sudhakar Babu	Former Principal Scientist, and Head, Crop Production, ICAR-IIOR, Hyderabad Member RCGM, DBT, Govt. of India	19/11/2024
10.	Ms. Nazhat R Khan	Principal , ASPEE Nutan Academy, Mumbai, India	21/11/2024
11.	Dr. R. K. Mathur	Director, ICAR-IIOR, Hyderabad	05/12/2024
12.	Dr. A. K. Vyas	Vice Chancellor, Agricultural University , Kota Rajasthan	07/01/2025

Photographs :



Visit of Hon'ble Minister of Agriculture, GOG Shri. Raghavjibhai Patel along with Dr. Z. P. Patel Hon'ble VC, NAU to PHT stall during Three day Mega Krushimela on December 21, 2024

