



શ્રી વિઠ્ઠલા ઋષિ

NAVSARI AGRICULTURAL UNIVERSITY

PARIVARTAN

Change for the Development

October 13, 2020

to

October 12, 2022



Dr. Z. P. Patel

Vice Chancellor

Navsari Agricultural University

Navsari 396 450

Gujarat IN



Inspired and Guided By

Dr. Z. P. Patel

Vice Chancellor

Navsari Agricultural University

Navsari 396 450

Compiled & Edited By

Dr. Lalit Mahatma

Dr. Vipul T. Shinde

Dr. Alpesh K. Leua

Dr. Timur Ahlawat

Publication No.: NAU/01/01/47/2022

Published By

Publication Cell

Navsari Agricultural University

Navsari 396 450

Gujarat IN

Graphics By: Mr. Shivam B. Patel



NAVSARI AGRICULTURAL UNIVERSITY

Eru Char Rasta, Dandi Road, Navsari - 396 450
Gujarat (India)

NAVSARI AGRICULTURAL UNIVERSITY

Dr. Z. P. PATEL
Vice Chancellor



02637-283869



02637-282554



vc@nau.in



www.nau.in

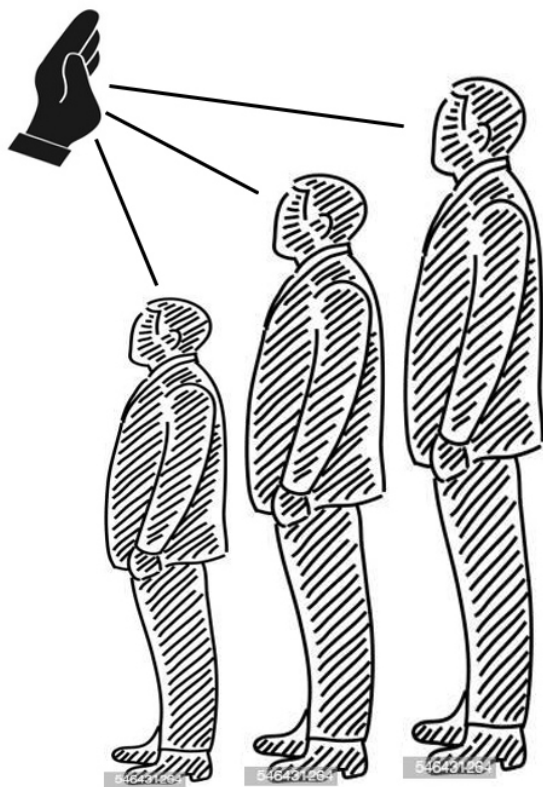
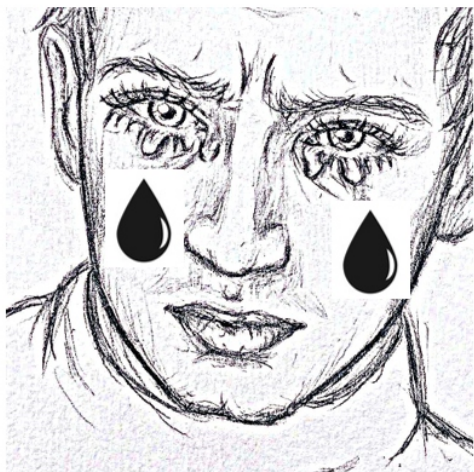
Preface

I always have been fortunate to be part of NAU, Navsari since students' life where I did my post graduation and raised to the position of Vice Chancellor. The university is having adequate, energetic and enthusiastic staff members. Working with such an excellent team is indeed very comforting. The only thing inevitable is change. However, if these changes are because of conscious choice, it will lead to transformation. Transformation does not have any upper ceiling. Good can be transformed into better, better into best and so on. NAU is striding fast to transform itself into Knowledge Power Centre. This is not possible until we make untiring efforts through path breaking decision and motivation. This should lead into cumulative efforts to take university to new horizon. Dream doesn't realize until the team doesn't devised. Therefore, our first priority has always been to devise a team which can work in harmony on a common goal for the cause of science and society. **Appreciatively, we always try to bring changes (popularly known as “परिवर्तन” i.e. PARIVARTAN) for development.** I always believe in “जरा हटके पद्धति i.e. **OUT OF BOX APPROACH**”. It is not enough that one should be on right track, rather one has to run on it, to avoid run over. How much, efforts we have made in this transformation through path breaking decision and how much we have run ahead in two years from October 13, 2020 to October 12, 2022 is presented in this monument. The only momentous points have been narrated avoiding activities by virtue of the post. It is indeed very fortunate that the document is released by the pious hands of Honorable Minister of State, Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi Shri. Kailash Choudhary; Mr. Kiranbhai Patel, Joint Managing Director of ASPEE Group of Companies, Honorable Vice-Chancellor of VNSGU Prof. Dr. K. N. Chavda; President, IAUA & Honorable Vice-Chancellor, Bihar University of Animal Sciences, Patna, Prof. Dr. Rameshwar Singh; Secretary, IAUA, Prof. Dr. Dinesh Kumar on the auspicious occasion of inauguration ceremony of the 9th Regional Meeting of the Indian Agricultural Universities Association being organized by NAU, Navsari during November 23-25, 2022.

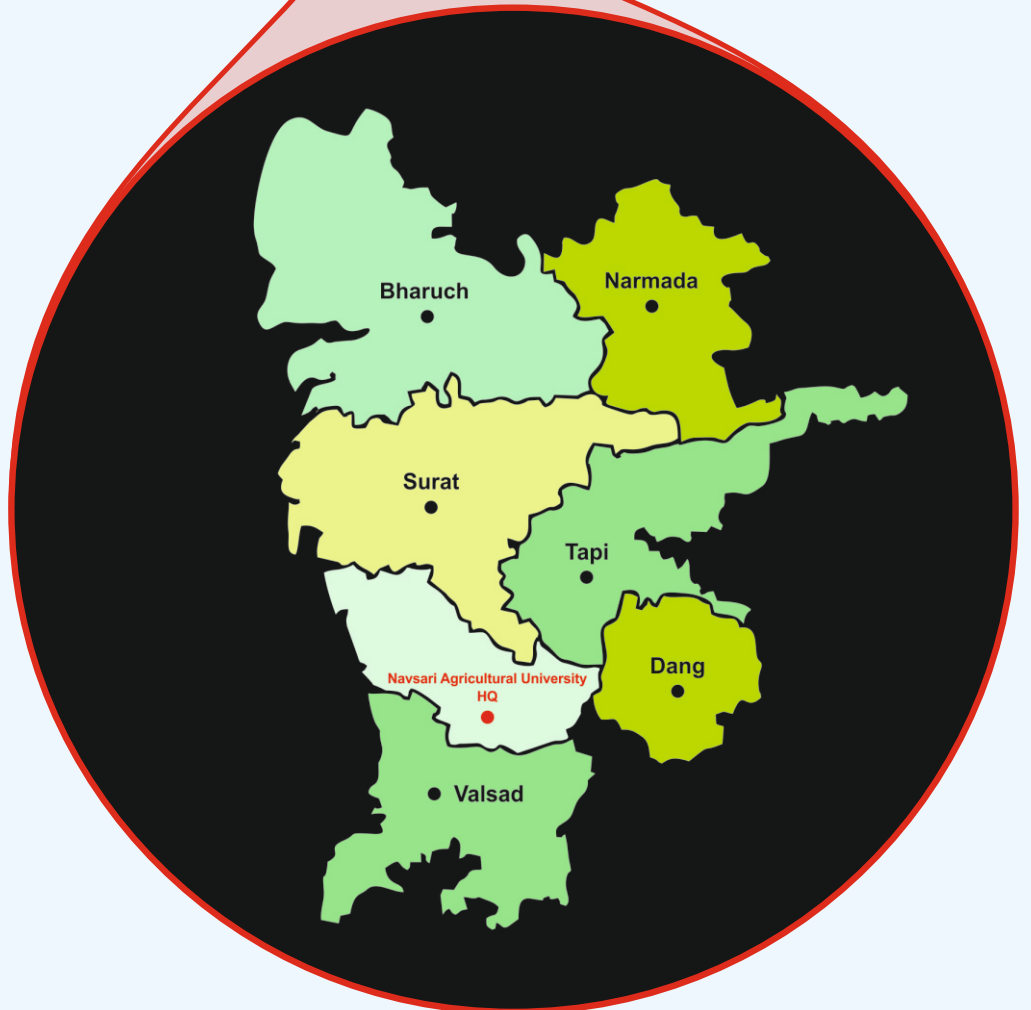
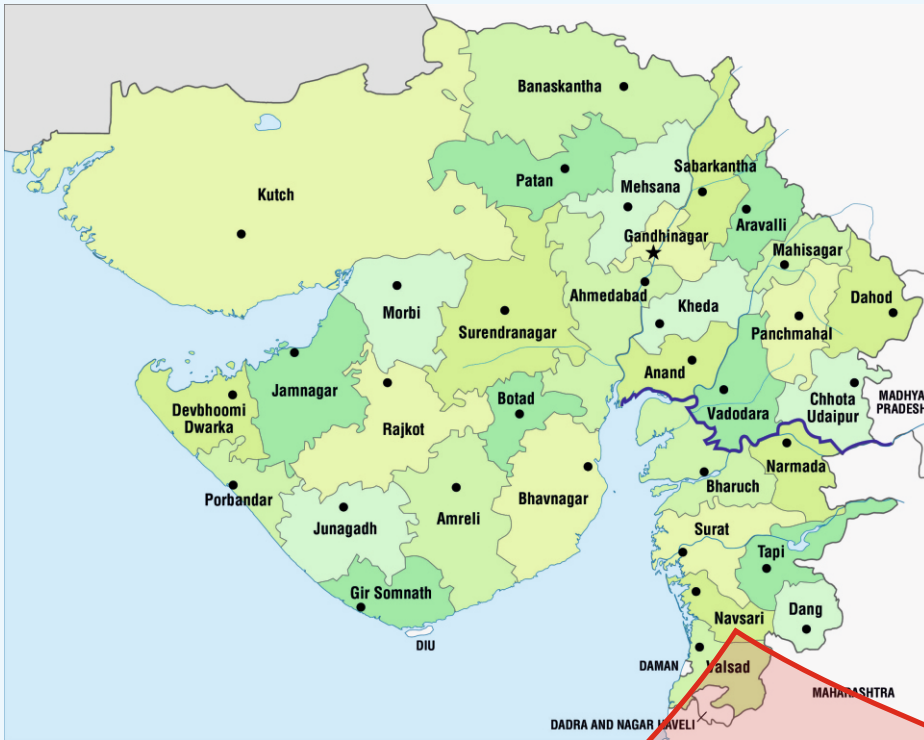
(Z. P. Patel)

NAU

Agriculture is the root of all prosperity



Navsari Agricultural University Jurisdiction



Introduction

The iconic educational and farmers welfare institute of the south Gujarat, Navsari Agricultural University (NAU) with Navsari as head quarter came into existence with the promulgation of Gujarat Agricultural University Act 2004 on May 1, 2004. NAU's jurisdiction covers seven districts of South Gujarat viz., Surat, Navsari, Bharuch, Valsad, Narmada, Tapi and Dangs. At present, there are eight Colleges imparting seven bachelor's, twenty seven Master's and twenty one doctoral degree programmes. There are faculty of Agriculture, Horticulture, Forestry, Agribusiness Management, Agricultural Engineering and Agricultural Biotechnology Science. Further, there are 25 research centres at 15 locations to carry out need based research on mandate crops viz., paddy, sugarcane, cotton, sorghum, small millets, mango, banana, sapota and vegetables. The NAU, extensively reach to the farmers and cover sprawling south Gujarat through its 5 Krishi Vigyan Kendras located at Navsari, Surat, Waghai, Vyara and Dediypada and SardarSmruti Kendra, T & V and ATIC at Navsari to undertake dissemination of newer technologies to end users of seven districts of South Gujarat.

All the eight constitutes colleges of NAU are Accredited by "National Agricultural Education Accreditation Board" of ICAR, New Delhi up to March 31, 2026. As per the "Ranking of Agricultural Universities" conducted by ICAR, NAU ranked XXII (2016), IX (2017), XIV (2018), XLII (2019) XXXI (2020) during last five years. Moreover, consecutively for last three years NAU, Navsari also bestowed with 4 star rating for the institution. The NAU, Navsari is cosmopolitan campus and during the year 2021-22, has admitted a total of 770 students including 434 students to undergraduate degree programmes and 336 students to postgraduate degree programmes. University also admitted 257 students in four diploma courses offered by seven Polytechnics.

NAU, Navsari is striding fast to transform itself into "Knowledge Power Centre". Commendable, consensus and intellectual decision and continuous motivation augment the pace of transformation. It further infuses the culture of team work to take university to new horizon. Together we have created a rainbow of development by identifying seven different areas to work in the University which are as follows.



Our decision making was solely based on the critical analysis that where we are and where we want to see ourselves in short term as well as long term. We analyze SWOT of the individual area or aspect and works on the weakness to reduce threat of the future. We are prepared to redeem the opportunities, wherever, possible we created it by using our strength.

The area wise existing status, our future goal as well as key path finding or motivational steps taken is presented in the different chapters.

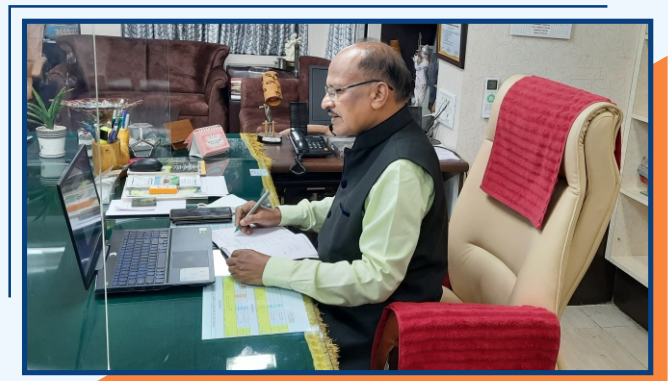
1. Administrative Sovereignty and Finance Management

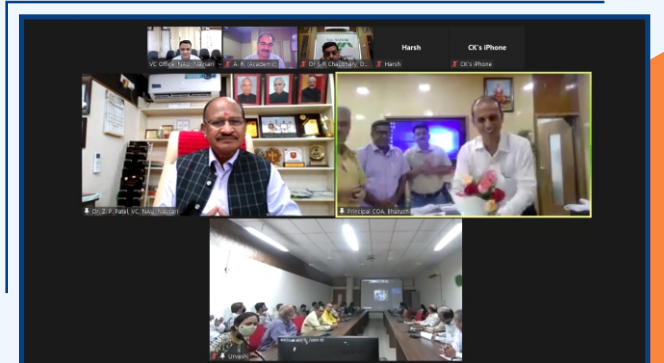
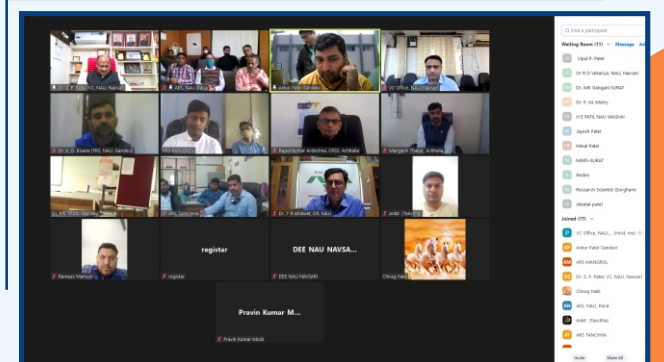
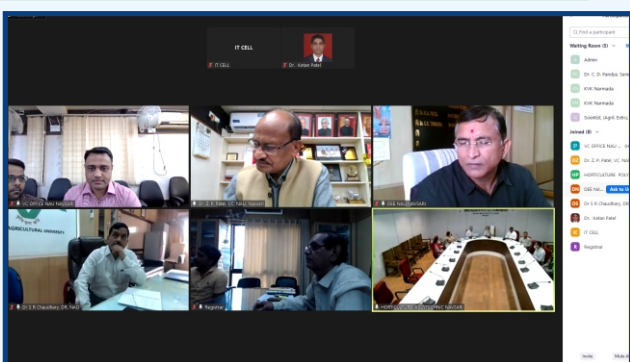
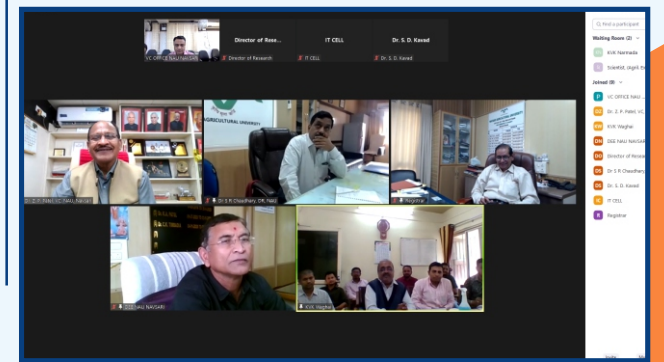
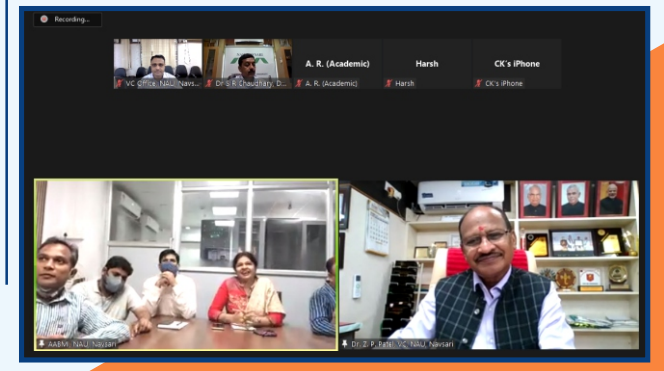
1.1 : आप के मन की बात कुलपति के साथ

The flagship programme of the university initiated was “आप के मन की बात कुलपति के साथ i.e. *AAP KE MAN KI BAAT, KULPATI KE SAATH*”. Initiating this flagship programme was one of the dreams of Dr. Z.P. Patel, Hon Vice Chancellor which got realized through his sincere efforts and dedication. During the early days of his professional carrier, he felt that authority should be accessible to all the employees to exchange the idea and boost the moral.

On the sparkling completion of one year as Vice Chancellor in the office on October 13, 2021, he initiated this flagship programme. To provide the sufficient time to all employees, the programme was organized in different episode which was on the 13th of every month if it is working day, else on previous or next working day. A dedicated day was fixed for the group of particular colleges or centers. All employees were connected online and provided sufficient time slot to eco their voce of heart. A team of University officers, experts, seniors also joined the programme. Total 4 programme were conducted and 1000 plus staff members of teaching, research and administrative up to 4th and adhoc staff took part. Around 250 important ideas and issues were brought in the notice of Hon Vice Chancellor, many of them have been implemented or resolved immediately and rests are in progress. Proceedings were prepared and all the points were comprehensively noted down for follow up.

The programme was loudly appreciated and introduced ownership among the employees which will certainly keep them morally high to give best for the cause of university.





1.2 : Accreditation of NAU

All the eight constitute colleges of Navsari Agricultural University have been accredited by the “National Agricultural Education Accreditation Board” of ICAR, New Delhi up to March 31, 2026. The Accreditation team visited the campus during April 20 -27, 2022.



▶ No. of Colleges Accredited	08
▶ No. of UG Programme Accredited	07
▶ No. of PG Programme Accredited	27
▶ No. of Ph.D Programme Accredited	21

1.4 : Establishment of Publication Cell

To streamline the publication related activities of the university, a dedicated “Publication Cell” has been established. The Publication Cell take cares of all the publication related activities of the NAU, Navsari particularly Annual Report and its quarterly news bulletin “Spectrum”. The publication cell also caters the need of other publications of the university by providing publication number and technical guidance. This ensures timely publication of all the bulletins and annual reports timely with the sense of responsibility. More than 200 publications have been handled by the publication cell after the establishment till today and numbers are constantly moving upward to recognize the contribution of the university.



1.5 : Celebration of Foundation Day of NAU, Navsari on the 1st May

The University was established on May 01, 2004 which is one of the greatest day in the history of world and Gujarat. The day is also celebrated as Labour Day in the entire world. On the day only in 1960 the Bombay State was dissolved and split on linguistic lines into the two states of Gujarat and Maharashtra. Therefore, the day is also celebrated as Gujarat establishment day by the Gujarat. In the aura of these, the foundation day of the university is often remained unnoticed. If it will not properly emphasize, the generations will fail to remember the university establishment day. Therefore, it was decided to celebrate the Foundation Day of NAU, Navsari on the 1st May every year with effective from May 01, 2023.

The responsibilities of the celebrating the Foundation Day (NAU day) will be vested upon different colleges or centers on rotation basis and different events will be organized. Proposals for the same will be invited and centers will be fixed by the Hon Vice Chancellor well in advance to plan and execute it efficiently.



1.6 : Financial Management Initiatives

After Covid-19 situation and increased contact less safe transaction, Financial Management was an important task for every institution. Hon. Vice Chancellor took initiatives to reduce cash transaction and convert majority of financial operation in to digital process. These initiatives reduce the use of stationary, approval time, and saved financial instrument, etc. This improved the efficiency and transparency in managing financial related activities. The following are the initiatives

URP – University Resource Planning

The URP has two components (1) Accounting Management System (AMS) and (2) Human Resource Management System.

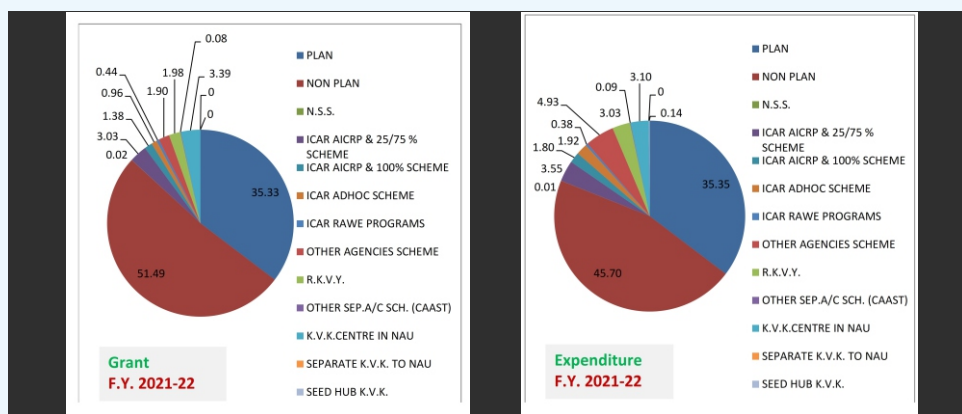
(1) Accounting Management System

- Single payment System
- Centralize Pay bill Management
- Online Grant Order
- Pensioners and Staff pay slip Manager
- Fess collection Management System

(2) Human Resource Management System

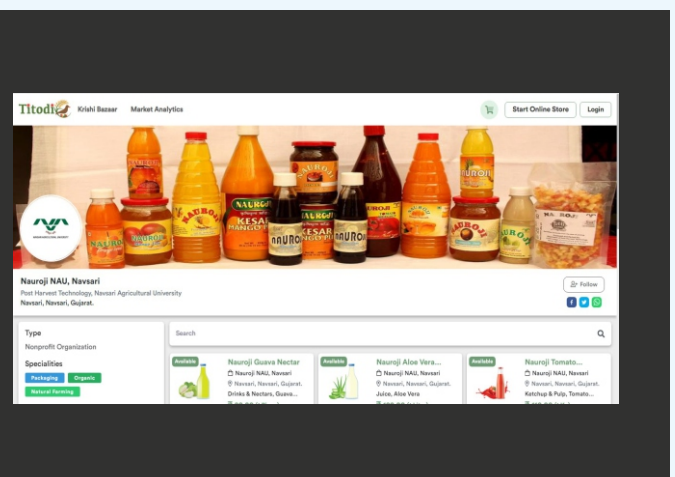
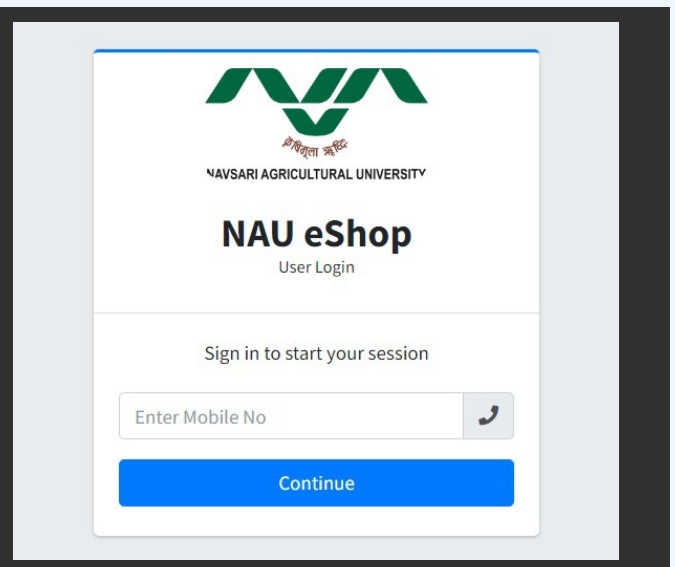
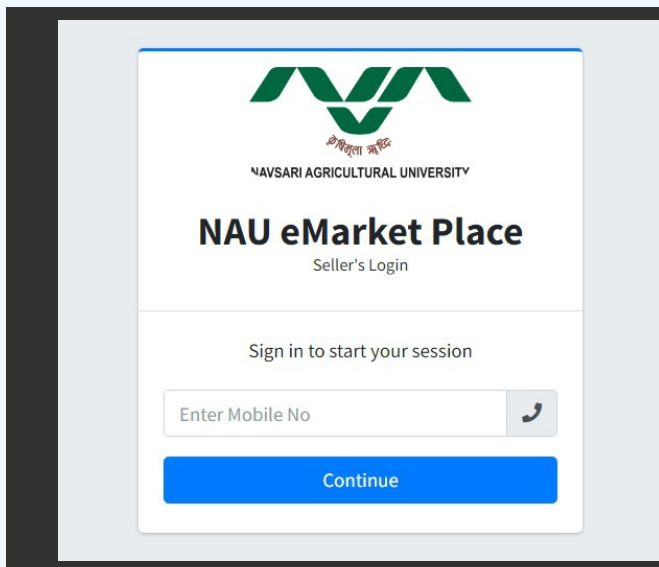
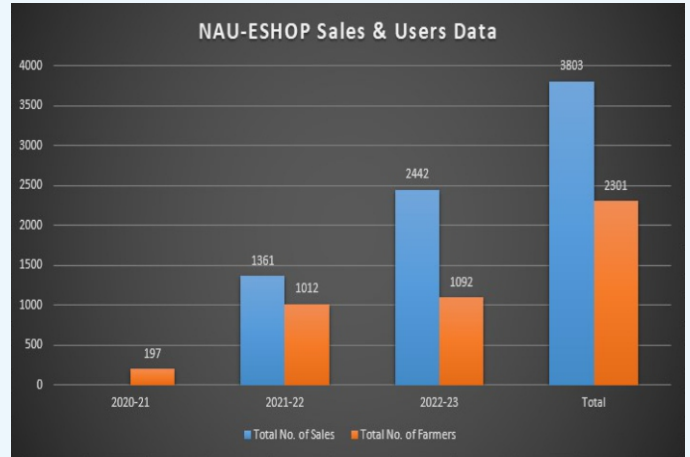
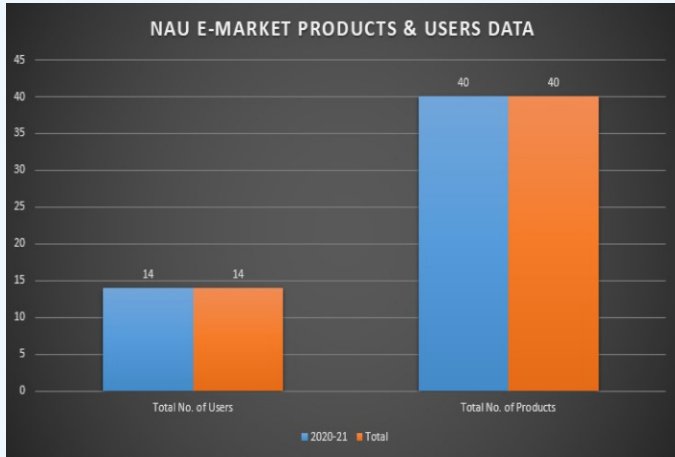
- Vacancy Management
- Service Book Report
- Status of Employ
- Improve the Tour Management System
- Digital Life Certificate for pensioners

We are 3rd in the country and first in the state to create linkage with Jeevan Praman Portal for Pensioners



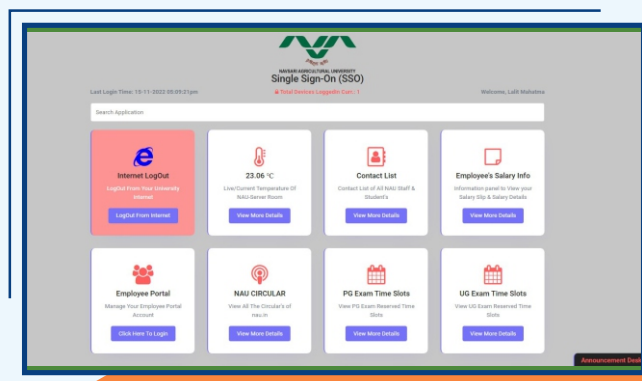
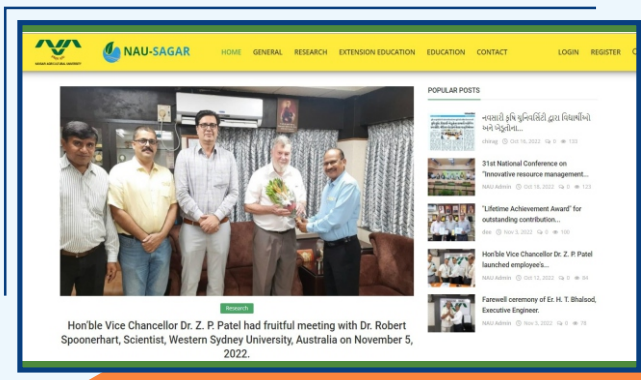
1.7 : Digital marketplace experience

NAU Navsari forged Strategic Partnership on March 11, 2022 for 'facilitating advertising, customer targeting and digital marketplace experience via Titodi Bazaar Platform by developing content for product showcase.



1.8 : Digitization drive

Attempts were made to digitize functioning of University under go green scheme and introduced, Employee's Digital ID Card with cutting-edge RFID, NFC and QR code capabilities, Smart card-based milk selling system, BHIM QR CODE for the digital transfer of money at various points of NAU, Success stories, etc. NAUSAGAR, a Social media platform to Eco the voice of university was also developed.



2. Enduring Quality Education

2.1 : New Recognition to the College of Forestry & Horticulture

The College of Horticulture as well as College of Forestry were established in the year 1988. Both the colleges were as single faculty and named as ASPEE College of Horticulture & Forestry. With the expansion of scope and strength, there was need to provide independent identity to both the colleges. College building for the College of Forestry was also commissioned in 2010, however, had no independent existence. Showing the administrative excellence and spirit these two faculties 'Horticulture and Forestry' set as independent faculties' *w.e.f.* June 01, 2022. Now these two colleges have independent existence for increasing the scope and area in their own specialized field.



2.2 : Establishment of Competitive Examination Cell at NAU, Navsari

NAU, Navsari is working hard in the comprehensive development of the students and farmers. For the development of our students and make them competent to appear and qualify various competitive examinations, a Competitive Examination Cell at NAU, Navsari was established. The Competitive Examination Cell is using the expertise of the University as well as external experts to infuse healthy competitive environment in the campus and imparting knowledge so that students can excel in their choicest field. The main focus of the cell will be to prepare students for the JRF/SRF/ASRB-NET and ARS. There is future plan to extend the activities in the other constitute colleges of the Universities at sub centers.



2.3 : Efficiently Implementation of Student READY Programme

ICAR initiated Student READY (Rural Entrepreneurship Awareness Development Yojana) to reorient graduates of Agriculture and allied subjects for ensuring and assuring employability and develop entrepreneurs for emerging knowledge intensive agriculture in Fifth Deans Committee Recommendation. This programme includes five components i.e. Experiential Learning (EL), Rural Awareness Works Experience (RAWE), In-Plant Training / Industrial attachment (IPT/IA), Hands-on Training (HOT) / Skill Development Training and Students Projects (SDT & SP). All these components of Student READY were implemented in all the colleges of the NAU, Navsari. However, uniformity and streamlining in the execution of the yojna is missing.

This programme was streamlined and executed uniformly in all the colleges and provision of disbursement of profit earned by the students in all the Experimental Learning Unit was initiated. The Students of NAU upgraded the entrepreneurial skill while dealing with more than 134 plus products of Agriculture, Horticulture, PHT and Forestry form production to marketing practices. They organized exhibition cum sale, direct marketing, institutional marketing approach for understanding of marketing issues in agricultural products.


This is helping students in skill development and confidence to start their own enterprise. This provide unique opportunity of "Earn while learn" helps student become "Job Providers rather than Job Seekers". Further, ensure the sharing of fifty per cent profit among the students of final year.



2.4 : Nodal training institute for Agri-clinics and Agri-business Centres (AC&ABC)

AABMI, Navsari identified as one of the Nodal Training Institute under “Agri-clinics and Agri-business Centres” (AC&ABC) ,a flagship scheme of Ministry of Agriculture & Farmers Welfare implemented by MANAGE, Hyderabad. The institute will provide 45 days training to agriculture and allied science graduate for the development of agribusiness. During the training the participants are guided to learn the business skills and preparation of detailed project reports to set up their chosen agri-ventures. They will become eligible for bank financing and subsidy support by NABARD under AC&ABC Scheme. First training of 22 Agripreneurs has been successfully completed.





**AGRICLINICS AND AGRIBUSINESS CENTRES
(AC & ABC) SCHEME**
(www.manage.gov.in/www.agriclinics.net)

Nodal Training Institute
(Recognized by MANAGE, Hyderabad)

ASPEE Agribusiness Management Institute
Navsari Agricultural University, Navsari

2.5 : Introduced 14 new Gold medals

Encouraged donors to felicitate students through medals. New fourteen different gold medals have been introduced from academic year 2021-2022 in annual convocation function. Now there will be total 48 gold medals for undergraduate, master and doctorate students of various faculties:

SN	List of New Medal Introduced	Faculty
1	Thermo Fisher Scientific (India) Pvt. Ltd. sponsored Gold Medal	Agriculture
2	Dr. Arunbhai Shah Gold Medal	Agriculture
3	Dr. C. T. Patel (Cotton Hybrid - 4) Gold Plated Silver Medal	Agriculture
4	Dr. Champakbhai Patel Gold Plated Silver Medal – Master	Agriculture
5	Dr. Champakbhai Patel Gold Plated Silver Medal – Doctorate	Agriculture
6	South Gujarat Koli Patel Agricultural Graduate Gold Plated Silver Medal	Agriculture
7	South Gujarat Koli Patel Agricultural Graduate Gold Plated Silver Medal	Horticulture
8	Anavil Agricultural Graduate Sponsored Gold Plated Silver Medal	Agriculture
9	Anavil Agricultural Graduate Sponsored Gold Plated Silver Medal	Horticulture
10	Dr. Thakorabhai Jeshingbhai Khatri Gold Plated Silver Medal	Agriculture
11	Shree Khedut Sahakari Ginning and Pressing Society Ltd Baben Sponsored Gold Plated Silver Medal	Agriculture
12	Prof. (Dr.) Rajesh Dilip Pandya Gold Plated Silver Medal	Agriculture
13	Shrimati Padmini Vitthalrao Narwade Gold Plated Silver Medal	Agriculture
14	Smt. Ranjanben and Dr.Vinodchandra D. Joshi Gold Plated Silver Medal	Agriculture

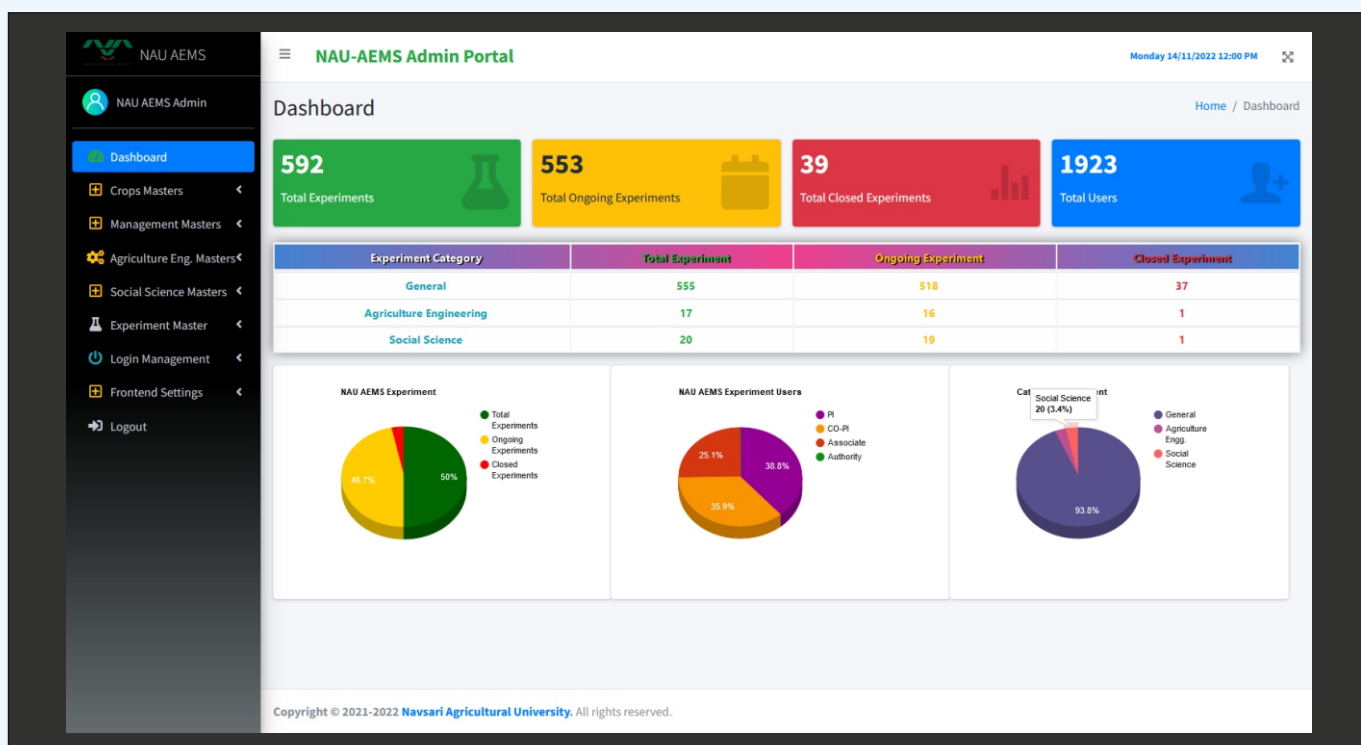
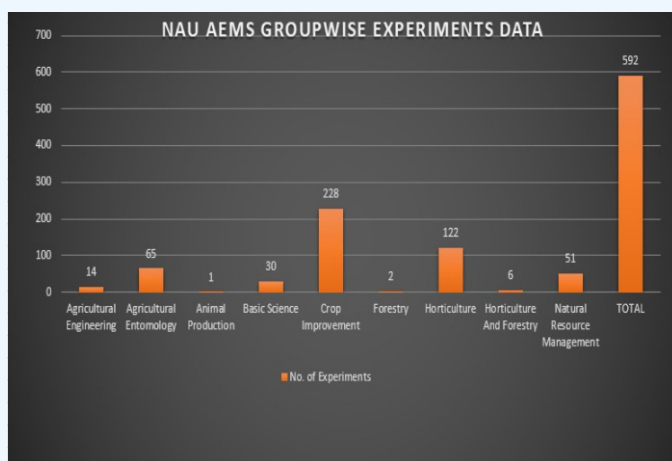
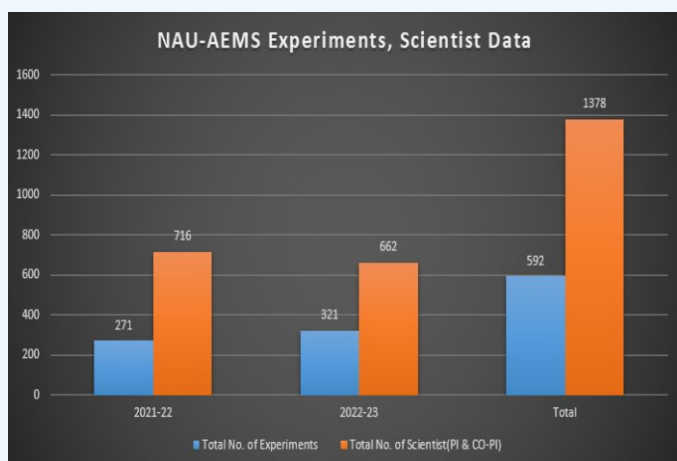


News Title: Navsari Agricultural University added 14 New Gold Medals, Now Students will get 48 Gold Medals

3. Relevance in Research Activities

3.1 : Agriculture Experiment Monitoring System (AEMS)

Probably first in any of the agricultural university, a computer based online dynamic system was developed which bring all experiments on digital planning, implementation, monitoring and documentation by the NAU using team of software developer. It was open for the users on July 9, 2021. The idea was incepted by Dr. Z.P. Patel, Hon Vice Chancellor, who provided every basic detail which can make the software user friendly and versatile. The software named as Agriculture Experiment Monitoring System (AEMS) have all the features to monitor the progress of research trials by the investigator, co-investigators having access to the same, Research Scientist, Director of Research and Vice Chancellor. The report preparation and documentation will become easy through this.



3.2 : Initiated Trails for the testing Feasibility of Rubber Planting in Gujarat

NAU, Navsari signed MoU with Rubber Research Institute of India (RRII), Kottayam on July 05, 2022. Dr. Z. P. Patel, Hon Vice Chancellor planted first plant of rubber on July 06, 2022 in the presence of Dr. K. N. Raghavan, Hon Executive Director of Rubber Board, Govt. of India and other dignitaries of NAU, Navsari and RRII, Kottayam at Agricultural Experimentation Station (AES), Paria of the NAU. Under this project total 1200 saplings of rubber were planted, of which 600 saplings were planted at AES, Paria research station and other 600 saplings were planted at various other stations as a location trial in South Gujarat.



3.3 : Supporting Research Papers

NAU, Navsari made a provision to encourage researchers to publish their research paper in high NAAS rated journal through sponsoring the research papers above six NAAS rating. Different permissible amount for the different NAAS rating is as under.

Revision in payment of publication charge in Research journal to authors (Scientist/Teacher/PG Guide) of NAU.

:: જાહેરનામું :: ૮૦૩

આથી સંબંધકર્તા સર્વેને જાણ કરવામાં આવે છે કે, તા. ૦૧/૦૨/૨૦૨૨ ના રોજ નવસારી ખાતે મળેલ સંચાલક મંડળની ૪૬મી બેઠકની કાર્યનોંધ મુદ્દા નં. ૪૬.૧૮ થી નીચેની વિગતે ઠરાવ કરેલ છે. જેનો અમલ તાત્કાલીક અસરથી કરવાનો રહેશે.

The Board of Management resolved that to approve revise payment publication charge in Research journal to authors (Scientist/Teacher/PG Guide) as below.

Sr. No.	NAAS Rating	Revised payment amount/actual publication charge whichever is less
1.	6.0 to 8.0	Rs.10,000/-
2	> 8.0 to 10.0	Rs. 25000/-
3	> 10.0	Rs. 50000/-

જા.નં.નકૃયુ/૨૪/એકેડેમીક/૧૫૦૫-૧૪૪/૨૦૨૨
તા. ૫/૦૩/૨૦૨૨

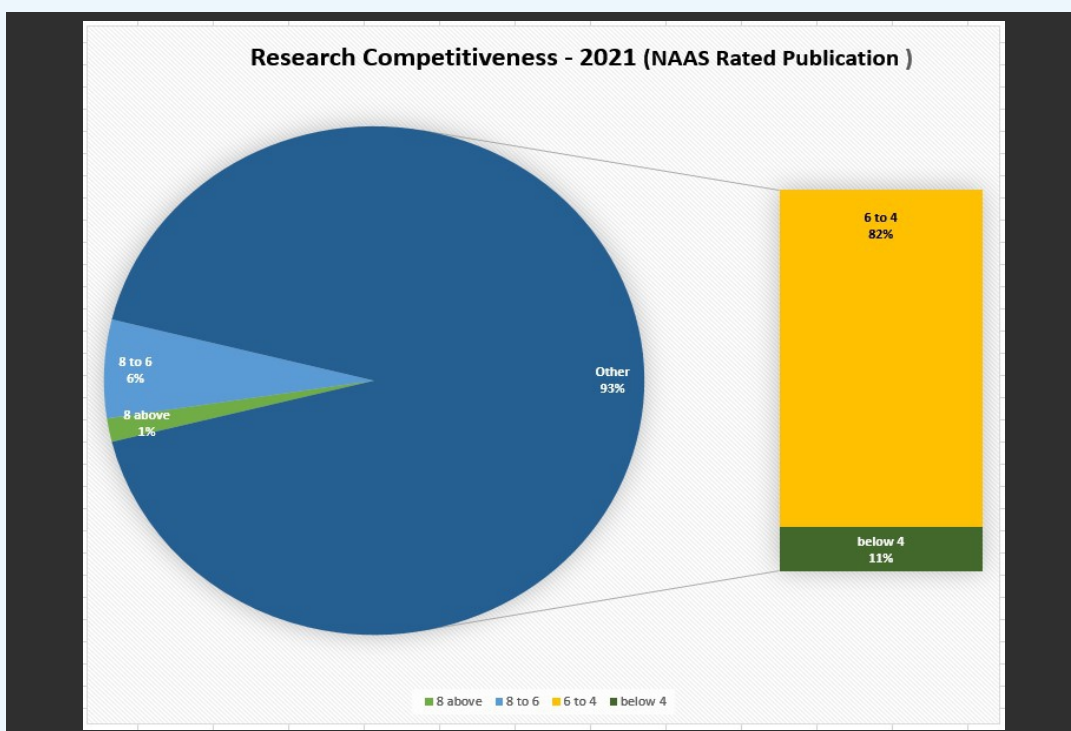
S. Patel
કુલસચિવ
નવસારી કૃષિ યુનિવર્સિટી
નવસારી

નકલ સવિનય રવાના :

૧. સંચાલક મંડળના તમામ સભ્યશ્રીઓ તરફ.
૨. યુનિવર્સિટીના તમામ અધિકારીશ્રીઓ તરફ.
૩. તમામ આચાર્યશ્રીઓ તરફ.
૪. તમામ યુનિટ /હેડ/ યુનિટ અધિકારીશ્રીઓ .

નકલ રવાના :

૧. કુલપતિશ્રીના રહસ્ય સચિવશ્રી, નવસારી કૃષિ યુનિવર્સિટી, નવસારી.
૨. કુલસચિવશ્રીના રહસ્ય સચિવશ્રી, નવસારી કૃષિ યુનિવર્સિટી, નવસારી.



4. Extensive Extension activities

4.1 : Personal Monitoring of Flood and Relief

Navsari had flood due to massive downpour on July 19, 2022. Along with the entire Navsari district and adjoining area, Fruit Research Station (FRS), Gandevi was harshly hit by the flood. A team of officers in the leadership of Hon Vice Chancellor Dr. Z.P. Patel, personally visited the affected centers including FRS, Gandevi and monitored relief work. For the relief to the cattle in the affected area of Gandevi & Chikhli taluka, around 30 tons green and dry fodder was flagged off from Navsari, Surat, Bharuch, Dediapada, Achhalia and Hansot centers.



4.2 : Sendriya Bazar for the organic grower

Direct Marketing platform for organic farm products facility started at three places in the Navsari city in coordination with District Administrations, and will be open for one day per week at each place permitting to sell their produce at different locations. Dr. Z. P. Patel, Hon'ble Vice-chancellor, NAU, Navsari inaugurated one of the three Direct Marketing platform for organic farm products at NAU on February 17, 2021 in the gracious presence of Smt. Prashashti Parik, DDO, Navsari and other officers of state government and university. All the facilities were created by KVK Navsari in association with ATMA and DRDA. This will help the farmers to sell their organic products direct to the consumer at good prices.



5. Employee, Students and Labour Welfare

5.1 : Promotion to employees

Promotion of non teaching technical and administrative staff was long pending. Promotion to all the staff members as per the government norms have been given to deserving candidates. Issues of the fellowship, arrears to research fellows, increments, arrears to the employee resolved.

● Promotion in various Cadres:

A. Agricultural Assistant (Recruited during 1989)

Promoted in Agricultural Officer: 01

B. Agricultural Assistant (Recruited during 1989)

Promoted in Agricultural Supervisor: 16

C. Head Clerk Promoted to Office Superintendent: 04

D. Senior Clerk Promoted to Head Clerk: 04

E. Junior Clerk Promoted to Senior Clerk: 16

5.2 : Increment in fellowship and salary

The amount for NAU Girl's fellowship scheme was revised from Rs.500.00 to Rs.3000.00 per month as per the ICAR-NTS fellowship., furthermore the amount of NAU PG Fellowship was also revised from Rs.1200.00 to Rs.5000.00 per month for master degree, and Rs.1500.00 to Rs.5000.00 per month for Ph.D. degree as per ICAR-NTS fellowship.

The issue of hiking wages to the labour was pending. Taking cognizance on the plight and necessity in the escalating cost of living the wages being paid to casual labours were hiked from initially Rs.178.00 to Rs.250.00 and then Rs.268.00 as per the existing government norms. Total 1993 labours got benefit of this in entire University.

Dr. M.P. Vadodaria retired in August 2007 as Associate Professor, however, the pension was fixed in 2021 and difference was paid as arrears. Service benefit of Rs. 70.94 lakh pending since last 10 years was resolved and paid money to Mr. Kishanbhai C. Naika, Mr. Navinchandra D. Lad, Mr. Bhupendrakumar S. Patel (all lab boy) and Mr. Ghanshyambhai N. Chaudhary (Mali).

Wages of 35 temporary drivers serving in the university was doubled from the existing because of the adoption of payment through Government e Marketplace (GeM).

5.3 : AC Bus for the Faculty and Students

Sanctioned 29 sitting capacity AC bus for the faculty and students of the University in the financial year 2021-22. 'Vahan Puja' was performed and bus was officially flagged off on July 6, 2022.



6. Modernizing Infrastructure Facilities

6.1 : The state-of-art turf grass cricket ground

The first state-of-art and well planned turf grass cricket ground in State Agricultural University has been planned, proposed, prepared and commissioned for the development of healthy life style by promoting outdoor sports activities among the students and staff of NAU. This has been one of the assets created by the university by the university staff members only which is better explained by the pictures.



Earlier view



Recent view

6.2 : Modernization of the Gymnasium

NAU modernized its gym with ultra modern facilities and equipments. The main objective of the gym is to help the students and staff members to develop more strength and stamina in terms of their health and other activities. The basic aim of the gym is to give the students and staff a change from their regular monotonous time table. It helps them to acquire more sports skills and makes them shine brighter in the field. The gym is equipped with 6 station multi- gym, elliptical cross trainer - E7, spinning bike, air bike, pecs fly / rear delt, lat pull down with rowing combo, assisted dip chin, leg curl / extension combo, multi functional station, 45° leg press, smith machine – counter balanced, power cage, Olympic flat - incline-decline- super-utility bench, solid rubberized dumbbells, dumbbell rack three tier, rubberized plates, Olympic bars, Olympic e-z bars, barbell rack, straight handle, ez curl handle, v – triceps handle, rowing handle, triceps rope, d rowing handle, square handle, gym belt, twister, jogger, arm curl bench, t-bar heavy duty, heavy duty stepper, seated calf machine smith machine, treadmill, Olympic plats rubber coated, vertical deep stand, etc.



6.3 : Protection of Research Farm

The safety and security of the university premise is most important for the protection of land from the intruders. Escalating land price tempt encroachment which may lead to serious legal issues. Wandering cattle and other animals frequently damage precious experiments, germplasm, materials and hard work of the employee. To protect these, preparation of boundary wall at main campus of NAU, Navsari was initiated and completed. Foundation stone of the same was laid on November 30, 2021. The project has also been extended to all the sub centers of the NAU, Navsari and completed more than 10 KM length wall preparation.



6.4 : Campus beautification scheme

The Campus beautification scheme at NAU, Navsari has been restructured and flourishing with the aesthetic insights of Hon'ble Vice Chancellor Dr. Z. P. Patel



7. Comprehensiveness and Linkage

7.1 : MoUs

During the period 35 different MoUs including two international MoUs for the expanding teaching, research, developmental & extension activities were signed from the different governmental, private, co-operatives, NGOs, etc.

To develop world class Sound-Solid-Sustainable Infrastructure, university signed an MoU with WAPCOS Limited (An ISO: 9007:2015, A Govt. of India Undertaking under Ministry of Jal Shakti) for “Engineering Procurement and Construction work on Turnkey Basis (Concept to Commission) for various infrastructure development works.



7.2 : Visit of the Member of Board of Management

Provision for the visit of Hon Members of the Board of Management was made to visit all the sub centers of the NAU, Navsari and eyewitness the mandatory activities going on there. Hon Members of the Board of Management had wonderful experience of visiting various centers and express satisfaction over the various activities. Few suggestions for the improvement of efficiencies and important aspect relevant to the farmer's problems were made which have been thankfully accepted.

Places visited by the different members are as follows

- ▶ College of Agriculture, Waghai
- ▶ College of Agriculture, Bharuch
- ▶ Fruit Research Station Gandevi
- ▶ College of Agricultural Engineering, Dediapada
- ▶ Agriculture Experimental Station, Paria
- ▶ Regional Cotton Research Station, Maktampura Bharuch
- ▶ Regional Rice Research Station, Vyara
- ▶ Main Sorghum Research Station, Athwa
- ▶ Main Cotton Research Station, Surat
- ▶ Hill Millet Research Station, Waghai
- ▶ Coastal Soil Salinity Research Station, Danti- Umbharat
- ▶ Agriculture Research Station, Dediapada



Glimpse of Coffee table book covering research accomplishment of Dr. Z. P. Patel

by the farmers and buried in the pits with application of methyl parathion dust to minimize further multiplication of fruit flies. About 6000 booklets were disbursed to the farmers while 500 flex banners were displayed in the target villages. Data on fruit fly catches and infestation were recorded regularly in the target area.

The project involved an investment of ₹ 7.86 crores funded through RKVY.

Outcome

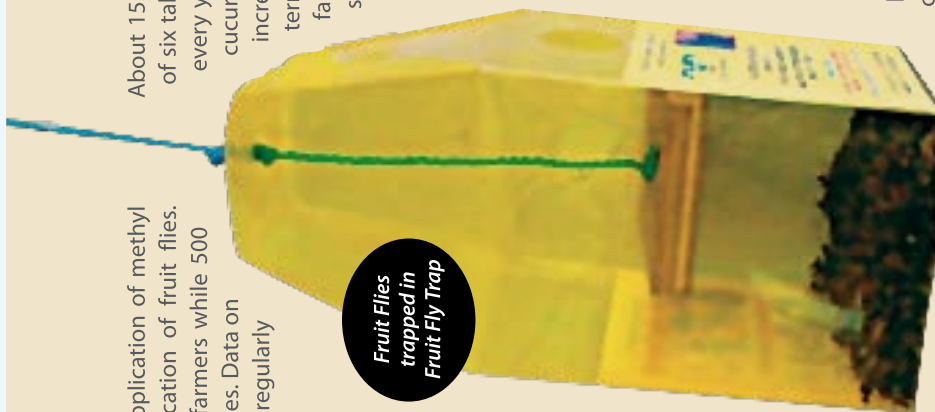
By installing the fruit fly traps in a wide area it was possible to successfully bring down the infestation level to 3 to 4 percent, which meant 85 percent control of the pest. Using this technology, the fruit fly damage in mango orchards minimised to 3.06 (0 to 4) percent and the damage in untreated orchards was 30.34 (30 to 35%) percent. Thus, more than 85.0 percent damage due to fruit fly was reduced which resulted in increase of 27.27 percent yield.

Moreover, being an eco friendly approach, it was possible to certify the produce as organic. Thus, the quality of a large quantity of fruits and vegetables improved making them suitable for export. Low expenditure incurred on the control of fruit fly could motivate the growers and possibly enhance the sustainability of the technology demonstrated. The area wide adoption of fruit fly traps could effectively kill the male flies and thereby check further multiplication without disturbing the ecosystem. If such technology is adopted for a considerable time it would definitely be helpful in recognizing the area as PFA (Pest Free Area) and ultimately it will help boosting the export trade.

About 15339 farmers of all categories as well as free riders of six talukas in two districts could save about ₹ 35 crores every year by controlling fruit flies in mango, sapota and cucurbitaceous vegetables. The quality of the products, increase in production and goodwill generated in farmers adopting this technology. Area wide control strategy is not known in our country. Therefore, farmers could also ascertain the actual benefits of adopting such technology which will further motivate them in future.

The effectiveness of low cost IPM technology in controlling infestation of fruit fly disseminated through the RKVY project has brought tremendous behavioral changes in the attitude of fruits and vegetable farmers. Now farmers have adopted this technology which has resulted in export oriented organic production of fruits and vegetables.

In terms of cost-benefit analysis, an estimated benefit of ₹ 81,840/ha is achieved by spending merely ₹ 350/ha. Thus, implementation of fruit fly technology in over 6000 ha of mango could have benefited the farmers to the tune of about ₹ 49 crore, while in case of cucurbitaceous vegetables, the fruit fly damage was minimised up to 2.5 to 4.6 percent by using the technology while the damage was 19 to 32 (30.50) percent in untreated fields. Thus, more than 85.0 percent damage due to fruit fly was reduced resulting in yield increase of 27 percent. Ultimately an estimated benefit of ₹ 26,250/ha in bitter gourd and ₹ 39,350/ha in bottle gourd was attained by spending only ₹ 550/ha. Thus, implementation of fruit fly technology in over 447 ha of cucurbitaceous vegetables crops benefited the farmers to the tune of ₹ 1 crore.



About The Vice Chancellor...

Dr. Z.P. Patel, did his Ph.D in Agricultural Entomology from GAU, Anandin 1994. He has begun his career as a daily wages labour and reached to the position of Vice-Chancellor of the Navsari Agricultural University. He possessed 37 years of experience in Research, Education, Extension & Administration and 26 years hands-on experience in Tribal belt.

He had Major research contributions in the Pest Management and has research achievements in **Fruit Fly** - developed and commercialized **Nauroji Stonehouse Fruit Fly Trap; Crop Pest Map** in Sapota; **Sapota Seed/Fruit Borer; Bio-Control of Sugarcane Pyrilla** in Gujarat. He was pioneer in establishment of **Food Quality Testing Laboratory at Navsari** and **founder Principal of College of Agriculture, Waghai** and served for seven years. He developed state of art infrastructures and facilities on the neglected piece of barren land in the tribal area of Waghai in Dang district.

He has guided **17 PG** students in Agricultural Entomology as Major advisor and has in his credit 47 research papers, 03 books and 04 projects completed as Principle Investigator and 06 projects initiated as Principal.

He is a proud recipient of the most coveted Research Excellence Awards from two consecutive Hon. Chief Ministers of Gujarat State (i) First by **Shri Keshubhai Patel** during 2000 (Sardar Patel Agricultural Research Award, GoG) (ii) **Shri Narendrabhai Modi** in 2012 (Federation of Gujarat Industries Award).

Other achievement includes Publication of success story “Integrated Pest Management for Higher Fruit Production” of RKVY in “**Coffee Table Book**” – a publication of Gol in 2012. He also has foreign exposure as attended 25 days international training at Israel and delivered lecture in UC Davis University of California, USA.

BOOK POST

TO

If undelivered please return to,
Publication Cell, University Bhavan
Navsari Agricultural University
Navsari 396 450 (Gujarat)