

AWARDS AND RECOGNITIONS

Achievements of Centre:

Conferred ICAR "Chaudhary Devi Lal Outstanding All India Coordinated Research Project Award 2016" under ICAR-AICRP (Fruits) programme as "Best Centre" on ICAR Foundation Day.





Citation

Cash Price

Gandevi centre conferred "Second Position for Excellent Performance in 2022-24 under ICAR-AICRP (Fruits)" during 12th Group Discussion Meeting of ICAR-All India Coordinated Research Project on Fruits held at Bihar Agricultural University during 11th to 14th February, 2025.



Dr. Prakash Patil, Project Coordinator, ICAR-IIHR, Bengaluru, Dr. P.C. Tripathi, HQ-Hort. Sci., ICAR, New Delhi and Dr. Subash Chander, ICAR Invitees awarding ' Second Position Performance Award 2023-24'



Dr. Z. P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari along with Dr. Lalit Mahatama, Associate Director of Research congratuating the team for 'Performance Award 2023-24'

Gandevi centre received "First Position for Outstanding Performance in the Year 2022-23" in ICAR-AICRP (Fruits) during 11th Group Discussion Meeting of ICAR-All India Coordinated Research Project on Fruits held at NAU, Navsari during 22nd to 25th January, 2024.



Cetificate



Dr. Sanjay Kumar Singh, DDG (Hort. Sci.), ICAR, New Delhi; Dr. Prakash Patil, Project Coordinator, ICAR-IIHR, Bengaluru and Dr. T. R. Ahlawat, NAU, Navsari awarding ' First Position Performance Award 2022-23'

Awarded as "Best Centre" of ICAR-AICRP (Fruits) for 2022 in 10th Group Discussion Meeting of ICAR-AICRP (Fruits) held in Virtual Mode during 28th February to 3rd March, 2023.



Certificate



Dr. Z. P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari along with Dr. T. R. Ahlawat, Director of Research and Dr. V. R. Naik, ADR congratuating the team for 'BEST CENTRE AWARD 2022'

Awarded as "Best Centre" of ICAR-AICRP (Fruits) for 2021 in 9th Group Discussion Meeting of ICAR-AICRP (Fruits) held in Virtual Mode during 8th to 11th March, 2022.



Dr. Z. P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari congratuating the team for "Best Centre Award 2021" and "Award of Excellence"

Recognized as "Award of Excellence" for 'Linking Technology Development and Transfer for 2021" in 9th Group Discussion Meeting of ICAR-AICRP (Fruits) held in Virtual Mode during 8th to 11th March, 2022.



Certificate

Awarded as "Best Centre" of ICAR-AICRP (Fruits) for 2020 in 8th Group Discussion Meeting of ICAR-AICRP (Fruits) held in Virtual Mode during 3rd to 6th March, 2021.



Certificate

Awarded as "Best Centre" of ICAR-AICRP (Fruits) for 2016 in 3rd Group Discussion Meeting of ICAR-AICRP (Fruits) held at PAU, Ludhiana (Punjab) during 3rd to 6th March, 2016.



Dr. N. K. Krishna Kumar, DDG (Hort. Sci.), ICAR, New Delhi and Dr. Prakash Patil, Project Coordinator, ICAR-AICRP on Fruits, IIHR, Bengaluru awarding 'BEST CENTRE AWARD 2016'

Milestone of Faculty:



Dr. Z. P. PATEL VICE CHANCELLOR NAVSARI AGRICULRTURAL UNIVERSITY NAVSARI – 396 450, GUJARAT

Dr. Z. P. Patel, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari had started his service in AICRP (Tropical Fruits) as Jr. Entomologist on July, 1990 at Gandevi. During his tenure, he surveyed and collected the different insect pest species of banana and sapota and their natural enemies got identified from CIE, London, UK first time in the region. As a landmark, he firstly reported an exotic pest, sapota seed borer (*Trymalitis margarias* Meyrick) from Dahanu area of Maharashtra in year 2000 under AICRP (TF) survey work. Also, first time reported midrib folder (leaf folder), *Banisia myrsusales elearalis* (Walker) damaging the leaves of *Khirnee*, a rootstocks (*Manilkara hexandra*) of sapota in nursery in South Gujarat area. As well, he noted the incidence of pseudostem weevil in banana first time in South Gujarat.

He had first time prepared pest calendar in banana and sapota based on status of insect pests of different regions of India. The design was appreciated at National level and is an outlook for new researchers. He had promoted as Associate Research Scientist (Ento.) during 1997 and later selected as professor in 2008. In AICRP (TF) scheme, he had served about 18 years, nearly half of University service and achieved the utmost position as Vice Chancellor, NAU, Navsari in October, 2020. During his term, he had recommended plant protection technology for bud boring pests of sapota, which was mostly adopted by growers in Gujarat.

He popularized eco-friendly and low cost fruit fly management technology of "NAUROJI STONEHOUSE FRUIT FLY TRAP" in fruit crops. The successful interventions of this technology was highlighted in 'INCENTIVISING AGRICULTURE RKVY INITIATIVES' published by Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India during 2012 for benefitting farmers community.





Integrated Pest Management for Higher Fruit Production

Background & Objectives

hree districts of South Gujarat: Surat, Navsari and Valsad are leaders in horticulture. These are also part of an agri-export zone for fruits and vegetables. But, the life of these fruit-farmers was made miserable by tiny fruit fly. Fruit fly is a major pest of mango, sapota and cucurbits. Intensity of damage recorded was as high as over 30 percent in mango and sapota, and between 20-40 percent in cucurbitaceous vegetables. Fruit flies cause heavy damage in terms of quality and quantity to the farmers every year. Insecticidal sprays, though they control infestation a little bit, are not only uneconomical but they leave residual effect much above tolerance limit, affecting adversely the prospects of export of such fruits and vegetables.

Fruit flies are a modern-day pestilence which ravage production. These flies, moreover, are good fliers and therefore their spread is extensive. Hence, area wide adoption of management strategy is required. Male Annihilation Technique (MAT), an Integrated Pest Management Technique (IPM), which uses sexual lures to capture males of fruit flies and kill them, is the only way to control growth and spread of fruit flies. This however, requires a Community approach for implementation.

Navsari Agriculture University designed, developed and commercialized an eco-friendly, economical and easily adoptable fruit fly trap popularly known as "Nauroji-Stonehouse Fruit Fly Trap". The trap uses Methyl Eugenol and Cuelures as par pheromones well-known for fruit

flies. In this trap, plywood blocks are soaked in the solution of lures + solvent + insecticide. Such traps remain effective for 5 to 6 months, which cover the entire fruiting period in mangos, sapota as well as cucurbitaceous vegetables and no recharge is necessary. It is ecofriendly, economical and easily adoptable.

It was decided to adopt this technology and spread it in the Surat-Navsari-Valsad belt for controlling and managing the fruit fly problem. It was also recognised that wide area adoption would help in developing this zone as a Pest Free Area (PFA). The project was taken up under RKVY.

Intervention

auroji-Stonehouse Fruits Fly Traps are prepared in food quality Testing Laboratory, NAU Navsari. Six talukas viz., Gandevi, Chikhali, Valsad, Pardi, Dharampiur and Kaprada of Navsari and Valsad districts were selected for the purpose. A block of orchards in each village in each Taluka was selected for first year implementation. Other blocks were selected during the following years.

In the selected blocks, farmers of all categories were covered. Traps were distributed to the farmers taking into account their area of plantation of mango, sapota and cucurbitaceous vegetables. Farmers' meetings were organised at village level to educate them regarding biology of fruit fly, nature of damage, technology for its management, installation of traps etc. They were educated by delivering lectures using LCD projector, display of flex banner, booklet and actual demonstration of the traps. To generate awareness of technology, 93 farmer's group training meets were scheduled. During group meetings scientific information of fruit flies emphasizing the life cycle of the pest, host range, damage symptoms, severity of damage and control methods to combat the pest in eco-friendly manner were covered. Gram Panchayats, Village level co-operative societies



and milk collecting centres collaborated in organising meetings, preparing lists of farmers, disbursement of traps etc.

With all this training and awareness, Farmers themselves installed the traps in their fields. Fruit fly population was also recorded at fortnightly intervals during the fruiting period in randomly selected orchards. The percent damage of fruits was worked out from orchards where traps were installed as well as uninstalled orchards. The level of damage in treated and untreated orchards was compared to know the actual impact of technology.

In all, 209 villages in 6 talukas of two districts were selected as target area during 2009 and 2010. The project was implemented in about 6814 ha area comprising of 6367 ha of fruit orchards and 447 ha of melon orchards of 15339 farmers of all categories. 1,10,640 traps were distributed to the farmers in the targeted villages for mango, sapota and cucurbitaceous vegetables.

Farmers were also educated on maintaining sanitation in the orchard. The fallen/damaged fruits in the orchards were collected





The "NAUROJI STONEHOUSE FRUIT FLY TRAP" ergonomically designed, prepared and commissioned by Dr. Z. P. Patel during his service at Fruit Research Station, Gandevi was registered by the Controller General of Patents, Designs & Trade Marks, Patent Office, Government of India in pursuance of and subject to the provisions of the Design Act, 2000 and the Designs Rules, 2001.

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प्रमाणित किया जाता है ति श्रेणी 22-06 में Navsari Ag Certified that the des number and date given FRUIT FLY TRAP in the r डिजाइन अधिनियम, 2000 तथा In pursuance of and subject	प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो FRUIT FLY TRAP से संबंधित है, का पंजीकरण, श्रेणी 22-06 में Navsari Agricultural University के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है। Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 22-06 in respect of the application of such design to FRUIT FLY TRAP in the name of Navsari Agricultural University. डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्ययीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.				
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Achievement of Faculties:

- Dr. Z. P. Patel [Associate Research Scientist (Ento.)] conferred "Sardar Patel Agricultural Research Award" (cash prize of Rs. 50,000/-), first in the discipline of Plant Protection by Govt. of Gujarat for his work on 'Contribution in Sapota Entomology Advancement of Its Knowledge and Farmers' Adoption' by Shri. Keshubhai Patel, Hon. Chief Minister of Gujarat at Gandhinagar on 6th June, 2000.
- Dr. Z. P. Patel, [Professor (Ento.)] conferred "Federation of Gujarat Industries Award" by Govt. of Gujarat for his work by Shri. Narendrabhai Modi, Hon. Chief Minister of Gujarat at Gandhinagar during 2012.
- K. D. Bisane (Jr. Entomologist) honored with "Fellow of Entomological Society of India" by Entomological Society of India, Indian Agricultural Research Institute (IARI), New Delhi during 2013.
- K. D. Bisane (Jr. Entomologist) honored with "Fellow of the Society for Bio-control Advancement" by Society for Bio-control Advancement, ICAR-National Bureau of Agricultural Insect Resources (NBAIR), Bengaluru during 2014.
- A. N. Patel; A. R. Patel and T. R. Ahir conferred 1st Rank in Poster presentation in National seminar on "Role of Organic Farming in Climate Resilient and Sustainable Agriculture" held at ASPEE College of Horticulture and Forestry, NAU, Navsari during 9th -10th January, 2014.
- K. D. Bisane, B. M. Naik and A. N. Patel conferred 2nd Rank in Poster presentation in National seminar on "Role of Organic Farming in Climate Resilient and Sustainable Agriculture" held at ASPEE College of Horticulture and Forestry, NAU, Navsari during 9th -10th January, 2014.
- K. D. Bisane (Jr. Entomologist) recognized as "Zonal Councillor (West Zone)" in "Pest Management in Horticultural Ecosystem" Journal published by 'Association for Advancement of Pest Management in Horticultural Ecosystem (AAPMHE)', ICAR-Indian Institute of Horticultural Research (IIHR), Bengaluru since 2015.
- ➢ K. D. Bisane (Jr. Entomologist) conferred "Young Scientist Award" from Bioved Research Institute of Agriculture, Technology & Science (BRIATS), Allahabad in 2016.
- K. D. Bisane (Jr. Entomologist) conferred with 2nd Rank in Oral presentation in National Symposium on "Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security" held at NAU, Navsari during 22nd to 24th January, 2019.
- K. D. Bisane (Jr. Entomologist) awarded with Best Oral presentation in International Conference on "Plant Protection in Horticulture (ICPPH-2019) - Advances and Challenges" held at ICAR-IIHR, Bengaluru- 560089 (Karnataka) during 24th to 27th July, 2019.
- Dr. K. D. Bisane (Jr. Entomologist) conferred "Young Scientist Award 2020" in the 2nd National Conference on "Recent Scientific Advances in Agricultural and Environmental Sciences" organized by Dr. B. Vasantharaj David Foundation, Chennai on 5th December, 2020.
- Dr. Pravin Kumar Modi (Jr. Horticulturist) conferred "Young Researcher Award 2020" by Institute of Scholar (InSc).
- Dr. Ankur P. Patel (Horticulturist) conferred "Best Horticulturist Award" on the occasion of 1st International Conference GIRISDA- 2022 jointly organized by Guru Kashi University, Talwadi Sabo, Punjab and Just Agriculture – The Magazine.
- Dr. Pravin Kumar Modi (Jr. Horticulturist) conferred "Dr. H. B. Singh Award" on the occasion of 1st International Conference GIRISDA- 2022 jointly organized by Guru Kashi University, Talwadi Sabo, Punjab and Just Agriculture – The Magazine.
- K. R. Solanki and Dr. K. D. Bisane conferred 3rd Rank in Poster presentation in '2nd Indian Horticulture Summit-2022' organized by Society for Horticultural Research and Development (SHRD) at NAU, Navsari (Gujarat) during 27th to 29th April, 2022.
- Dr. P. K. Modi, Dr. K. D. Bisane, Dr. A. P. Patel and Dr. Prakash Patil awarded with Best Oral presentation in Global Conference on "Precision Horticulture for Improved Livelihood, Nutrition and Environmental Services" held at JISL, Jalgaon (M.S.) during 28th to 31st May, 2023.
- Dr. K. D. Bisane awarded with 3rd Rank in Oral presentation in International Conference on "Next-Gen Preparedness for Food Security and Environmental Sustainability" held at AAU, Jorhat (Assam) during 22nd to 24th November, 2023.

Pest Calendar:

Dr. Z. P. Patel [Associate Research Scientist (Ento.)] had first time prepared pest calendar in banana and sapota based on status of insect pests of different regions of India. The copy of pest calendars was submitted to Dr. H. P. Singh, Project Coordinator, AICRP on Tropical fruits, Bangalore (Karnataka).



Banana Pest Calendar



Sapota Pest Calendar

Dr. K. D. Bisane (Jr. Entomologist) had modified pest calendar as pest-wise in sapota based on infestation level of major insect pests of various states of India. The design was included in *Insect Pests of Sapota in India – Monograph* published by ICAR-AICRP (Fruits), ICAR-IIHR, Bengaluru during 2018.



Seed borer Pest Calendar

Midrib folder Pest Calendar

NOTEWORTHY ACHIEVEMENT OF GANDEVI

Coconut cv. Gandevi Selection

It is hybrid of cross between Tall x Dwarf cultivar recommended for South Gujarat region. It is famous for kernel and nut water taste with moderate height tree **(1967)**



Nut





Kernal (Copra)

Dehusked nut



Matured Tree of cv. Gandevi Selection

Sr. No. Characteristics		Value / Feature	
. 1.	Tree height (m)	15-20	
2.	Tree girth (cm)	120-130	
3.	Fruit length (cm)	19-20	
4.	Fruit girth (cm)	15-16	
5.	Fruit weight (kg)	2.0-2.1	
6.	Nut water content (ml)	550-600	
7.	Fruiting initiation (years)	6-7	
8.	Kernal (Copra) weight (g/fruit)	180-200	
9.	Fruit yield (nut/tree/year)	100-120	
10.	Fruit shape	Oblong with triangle	
11.	Quality of coconut water and kernel	Firm texture and sweet flavour	

Use of Rayan/Khiranee as rootstock

Innovation of *Rayan/Khiranee* as rootstock (approx. 2^{1/2} years) for propagation of sapota seedlings in India first time from this centre

(GAU- 1977- Proposer: Dr. R. S. Amin).



Seedlings of Rayan/Khiranee as rootstock



Inarch grafting with Rayan/Khiranee as rootstock



Documents of Rayan/Khiranee as rootstock

Banana cv. Gandevi Selection

It found superior in respect of productivity than Grand Naine as well as both these varieties were found similar on the basis of per day production

(ICAR-AICRP on Fruits- 2003 - Proposer: Dr. C. B. Patel and associates)





Banana Bunch cv. Gandevi Selection

Sr. No.	Characteristics	Average value
1.	Plant height (m)	19.05
2.	Stem girth (cm)	80.80
3.	No. of leaves	26.50
4.	Flowering (shooting) days	380.0
5.	Maturity days	510.0
6.	Bunch length (cm)	78.0
7.	Bunch girth (cm)	110.0
8.	No. of hands/bunch	12.50
9.	No. of figures/bunch	302.5
10.	Finger length (cm)	21.50
. 11.	Finger girth (cm)	12.20
12.	Bunch weight (kg/plant)	35.0
13.	Yield (t/ha)	96.27
14.	Productivity ((t/day)	0.21
15.	TSS	19.0
16.	Pulp skin ratio	3.0
17.	Weigh loss due to ripening (%)	16.0
18.	Ripening days	10.0

National Consultation Meeting on Sapota

The programme was jointly organized by ICAR-AICRP on Fruits, IIHR, Bengaluru and Navsari Agricultural University, Navsari on 29th September, 2015 at ASPEE, College of Horticulture and Forestry, NAU, Navsari aimed in developing a road map involving the various stakeholders including researchers and developmental agencies of sapota.. On the occasion, Dr. T. Janakiram, ADG (Hort. Sci. I), ICAR, New Delhi inaugurated the function and Dr. C. J. Dangaria, Vice-Chancellor, NAU was president of the meeting along with Dr. A. N. Sabalpara, Director of Research, NAU, Navsari; Dr. Prakash Patil, Project Coordinator (Fruits), IIHR, Bengaluru and Dr. B. N. Patel, Dean, ACHF, NAU, Navsari. More than 100 delegates from the SAU-based and ICAR-institute based centres of AICRP, research scholars, progressive farmers, policy makers, SHGs and presidents of the growers associations, co-operative societies, self-help groups related to processing and traders were brought together on a common platform during the meet for developing the future road map.

On occasion, Dr. C. J. Dangaria emphasized the problems associated with marketing and processing of sapota, which were the major issues related to sapota cultivation in Gujarat. Dr. Janakiram emphasized the important researchable issues in relation to sapota, such as post-harvest management and use of micronutrients and crop regulation, which are areas yet to be addressed. Dr. Prakash Patil, Project Coordinator (Fruits), gave a brief presentation about the scenario of sapota cultivation in the country and also spoke about the genesis of the consultation meeting. Fruitful interactions were conducted among the stakeholders, scientists and policy makers. An exhibition of the different sapota.



MEMORANDUM OF UNDERSTANDING SIGNED

1. National Agri-Food Biotechnology Institute (NABI), Mohali (Punjab) has made an Agreement on 03-08-2021 with Fruit Research Station, Navsari Agricultural University, Gandevi for "Banana Biofortification and Disease Resistance Project" with five collaborating Institutes namely NABI, National Research Centre on Banana (NRCB), Tiruchirapalli (T.N.); Bhabha Atomic Research Centre (BARC), Mumbai; Indian Institute of Horticultural Research (IIHR), Bengaluru and Tamil Nadu Agriculture University (TNAU), Coimbatore, with support from Biotechnology Industry Research Assistance Council (BIRAC), a Public Sector Enterprise of Department of Biotechnology, Government of India. Under this project, NAU will conduct Event Selection Trials of GE banana events at Gandevi centre and the duration of this Agreement is for a period of three years (2021 to 2024).



Navsari Bhaskar, dated- 16-09-2021

2. MoU of "Banana Macro-propagation Technology" for Transfer of Technology (ToT) has inked on dated 8th October, 2021 with ICAR-NRCB, Tiruchirapalli (T.N.) as Technology Inventor and ICAR-AICRP (Fruits), ICAR-IIHR, Bengaluru as Technology Facilitator and FRS, NAU, Gandevi as Technology Provider (1 no.).



MoU of "Banana Macro-propagation Technology" for Transfer of Technology (ToT) has inked in presence of Dr. S. Uma, Director, ICAR-NRCB, Tiruchirapalli (T.N.)

3. ICAR-AICRP (Fruits), FRS, NAU, Gandevi has singed MoU with eleven (11) farmers and one (1) nursery on dated 18th November, 2021 for production of banana planting material at his farms and commercialization purpose through "Banana Macro-propagation Technology". The details list of above as given below.

S.N.	Name of the Farmer	Address	
1.	Shri. Bhoye Tusharbhai Yeshubhai	At. Post. Tekpada, Taluka: Waghai District: Dang	
2.	Shri. Chaudhari Pradipbhai Bhupatsinh	At. Post: Pipalwada, Taluka: Dolvan, Dist: Tapi	
3.	Shri. Solanki Anilkumar Kalidasbhai	At. Post: Taraj, Taluka: Palsana, Dist: Surat	
4.	Shri. Siyodia Nanubhai Chhabildas	At. Post: Siyod, Taluka: Palsana, Dist: Surat	
5.	Shri. Siyodia Ajitbhai Kanjibhai	Taluka: Palsana, Dist: Surat Pin: 394352	
6.	Shri. Patel Parth Kishorchandra	At. Post: Lakhanpor, Taluka: Palsana, Dist: Surat	
7.	Shri. Chaudhary Ramanbhai Lachhiyabhai	At.: Khutli, Post: Aamdha, Taluka: Kaprada, Dist: Valsad	
8.	Shri. Jadhav Babubhai Ramubhai	At.: Khutli, Post: Aamdha, Taluka: Kaprada, Dist: Valsad	
9.	Shri. Ojariya Mangalbhai Rupabhai	At.: Khutli, Post: Aamdha, Taluka: Kaprada, Dist: Valsad	
10.	Shri. Sureshbhai Chhanabhai Bhorasat	At.: Khutli, Post: Aamdha, Taluka: Kaprada, Dist: Valsad	
11.	Shri. Ghulum Chandrakantbhai Mahujiya	At. Ghana, Post: Lavchali, Taluka: Suber, Dist: Dang	
12.	Jarvi Nursery, Shri. Jayeshbhai Nathubhai Patel	At. Post: Bharadiya, Taluka: Valiya, Dist: Bharuch	



MOu singed with farmers



Field Day at banana Macro-propagated plants orchard



Production of banana Macro-propagated plantlets at farmers field

4. Two MoU of "Macro-propagation Technology of Banana" was executed on 29-12-2022 between ICAR-AICRP (Fruits), FRS, NAU, Gandevi and 1. Richa Horticultural Service (Shri. Chandrakant Patel), Vadodara and 2. Muni Seva Ashram (Shri. Vikram Patel), Vadodara for production of banana planting material for commercial use in presence of Dr. Z. P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari and Dr. T. R. Ahlawat, Director of Research.



Two MoU signed in presence of Dr. Z. P. Patel, Hon'ble Vice-Chancellor and Director of Research, NAU, Navsari



Traning given for production of banana Macropropagated plantlets

XI Group Discussion of ICAR-All India Coordinated Research Project on Fruits

XI Group Discussion of ICAR-AICRP on was organized at NAU, Navsari on 22nd January, 2023 with presidency of Dr. Z. P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari and Chief Guest as Dr. V.B. Patel, ADG (F&PC), ICAR, New Delhi. In the ceremony, Guest of Honour were Dr. B.M.C. Reddy, ICAR Special Invitee & Former VC, DRYSRHU, Venkataramannagudem and Dr. V. A. Parthasarathy, ICAR Special Invitee & Former Director, ICAR-IISR, Kozikode along with Dr. Prakash Patil, National Organizing Secretary & Project Coordinator (Fruits), ICAR-IIHR, Bengaluru; Dr. Timur R. Ahlawat, Director of Research, NAU, Navsari and Dr. Ankur P. Patel, Local Organizing Secretary & Officer In-Charge, FRS, Gandevi.

The event was organized by Fruits Research Station, NAU, Gandevi. In group meeting, Directors of various Nodal crop Institutes and ICAR, New Delhi along with over 150 delegates from 30 SAU-based centres, 14 ICAR-Institute-based centres, 4 CAU-based centres participated to reviews progress, featuring notable experts recommending production and protection technologies for mandated fruit crops. Also, eight successful beneficiaries across the county of special programme under TSP & SCSP scheme were awarded for their achievements in fruit crops.

The Plenary Ceremony of XI Group Discussion of ICAR-AICRP on Fruits was organized at NAU, Navsari on 25th January, 2024 with presidency of Dr. Sanjay Kumar Singh, DDG (Hort. Sci.), ICAR, New Delhi along with Dr. Prakash Patil, National Organizing Secretary & Project Coordinator (Fruits), ICAR-IIHR, Bengaluru; Dr. Timur R. Ahlawat, Director of Research, NAU, Navsari and Dr. Ankur P. Patel, Local Organizing Secretary & Officer In-Charge, FRS, Gandevi.





Activity under Tribal Sub-Plan under ICAR-AICRP (Fruits)

- **2014-15:** Six (6) demonstrations in Dang district and Five (5) in Valsad district on banana cv. Grand Naine Tissue culture plants.
- **2015-16:** Five (5) demonstrations in Dang district and Nine (9) in Valsad district on banana cv. Grand Naine Tissue culture plants.
- **2016-17:** Three (3) demonstrations in Dang district and Twelve (12) in Valsad district on banana cv. Grand Naine Tissue culture plants.
- **2017-18:** Nine (9) demonstrations in Dang district and Eight (8) in Valsad district on banana cv. Grand Naine tissue culture plants.
- **2018-19:** Six (6) demonstrations in Dang district and Twelve three (23) in Valsad district on banana cv. Grand Naine Tissue culture plants.
- **2019-20:** Thirty (30) demonstrations in Valsad district on banana cv. Grand Naine Tissue culture plants.
- **2020-21:** Seventeen (17) demonstrations in The Dang district on banana cv. Grand Naine Tissue culture plants.
- **2021-22:** Twenty (20) demonstrations in The Dang, Valsad, Surat and Tapi district on banana cv. Grand Naine Tissue culture plants and macro-propagated plants.
- **2022-23:** Thirty (30) demonstrations in The Dang and Tapi districts on banana cv. Grand Naine Tissue culture plants and macro-propagated plants.
- **2023-24:** Ten (10) demonstrations in The Dang, Navsari and Tapi districts on banana cv. Grand Naine Tissue culture plants and macro-propagated plants.
- **2024-25**: Seventeen (17) demonstrations on farmers' field (10 farmers in Valsad + 7 farmers in Tapi district and 1 farmer in The Dangs district) + 1 farmers for value added product.

Technology Demonstrated:

- Tissue culture plants cultivation (Grand Naine).
- Use of paired row planting method.
- Stage based application of fertilizers.
- Drip irrigation and Fertigation practices.
- Inter-cropping with vegetables.
- Blue polythene bag for bunch covering.
- Application of liquid bio-fertilizers, bio-agents and Novel organic liquid nutrient supplied from NAU lab.

Activity under Scheduled caste Sub-Plan under ICAR-AICRP (Fruits)

- **2019-20:** Five (5) demonstrations in Navsari and Surat districts on banana cv. Grand Naine Tissue culture plants.
- **2020-21:** Fourteen (14) demonstrations in Navsari and Surat districts on banana cv. Grand Naine Tissue culture plants (7 in Navsari + 7 in Surat district)

Technology Demonstrated:

- Tissue culture plants cultivation (Grand Naine).
- Stage based application of fertilizers.
- Drip irrigation and Fertigation practices.

- Inter-cropping with vegetables.
- Blue polythene bag for bunch covering.
- Application of bio-agents and Novel organic liquid nutrient supplied from NAU lab.

Activity under Mission for Integrated Development of Horticulture – MIDH

• About 2100 sprouted cutting of Black Pepper cv. Pannur-1 has been prepared for sell every year (2024-25).

Activity under Banana Macropropagation Technique for production of Low cost planting material

• About 1110 Macro plants of banana prepared and sell to the farmers (2024-25).

	I	B. H. 5014		
Sr. No.	Item	2024-25 Target	Achievement	2025-26 Target
1.	Sapota (Approach+Saddle)	2000	944	1000
2.	Mango grafts (Approach+Saddle)	2000	1147	1200
3.	Mango grafts (Soft wood)			
4.	Rayan seedlings	2000	1000	1000
6.	Mango seedlings	2000	1250	1200
7.	Areca nut Seedlings	500	40	100
8.	Lemon (Air layered)	1000	652	700
9.	Misc. Seedlings	2500	1686	2200
	B. H	I. 9510-N-12		
1.	Sapota grafts (Approach+Saddle)	2000	1215	1500
2.	Mango grafts (Approach)	3500	3956	2500
3.	Mango Saddle grafts	1000	455	500
4.	Mango grafts (softwood)	500	533	
4.	Sapota grafts (softwood)	100	53	
5.	Banana (Macro-propagated)	3000	4682	
0.0000	Papaya (Grafted)	500	2139	alarahan ata ta arang arang ar
5.	Coconut seedlings a) West Coast Tall b) (TxD) F2 c) (DxT) F2 d) Mahuwa Selection	3000 2000 700 150	2660 1960 230 35	3000 2000 300 100
6.	Rayan seedlings	2000	1000	1700
7.	Mango Seedlings	5000	5400	3500
8.	Citrus Seedlings	500	95	500
9.	Black pepper (sprouted cutting)	2500	2047	2500
10.	Papaya grafted plants	· · · · · · · · · · · · · · · · · · ·	71	100

Nursery Achievement
