

**Action taken report of 11th meeting of Horticulture and Agro-forestry Research subcommittee and Combined Joint AGRESO held at NAU, 10-11 March-2015 and AAU, Anand 7-9 April-2015 respectively.**

**Recommendations**

Sr. No.	Title	Suggestions	Action Taken
<b>A</b>	<b>Fruit Science</b>		
1	Effect of post shooting foliar spray of fertilizers on banana ( <i>Musa paradisiaca</i> L.) cv. Grand Nain. (Action by Research Scientist, RHRS, ACHF, NAU, Navsari)	<ol style="list-style-type: none"> <li>1. Recast the economics, add labour charges for opening of sleeves during second spray on the bunch.</li> <li>2. Use <i>bunch spray</i> instead of the word <i>foliar spray</i></li> <li>3. In Table 1, write <i>shooting to harvesting</i> instead of <i>flowering to harvesting</i></li> <li>4. Use word <i>complete</i> instead of <i>completely</i> in recommendation</li> </ol>	<ol style="list-style-type: none"> <li>1. Economics was recast and added labour charges for opening of sleeves during second spray on the bunch.</li> <li>2. Used <i>bunch spray</i> instead of the word <i>foliar spray</i></li> <li>3. In Table 1, wrote <i>shooting to harvesting</i> instead of <i>flowering to harvesting</i></li> <li>4. Used word <i>complete</i> instead of <i>completely</i> in recommendation</li> </ol> <p><b>Recommendation approved in Combined Joint AGRESO, AAU, Anand</b></p>
2	Effect of different organics on growth, yield and quality of mango cv. Kesar under high density plantation. (Action by Research Scientist, RHRS, ACHF, NAU, Navsari)	<ol style="list-style-type: none"> <li>1. Bring out the recommendation based on net realization instead of BCR. (T<sub>7</sub> instead of T<sub>4</sub>)</li> <li>2. Check the spelling mistakes in the recommendation</li> <li>3. In Gujarati version, add the term <i>heavy rainfall</i></li> <li>4. Record microbial count in different organics</li> <li>5. Conduct the soil analysis and analysis of different organic matter with the help of Dr. Dhiraji Patel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recommendation was recast on the basis of net realization (T<sub>7</sub> instead of T<sub>4</sub>).</li> <li>2. Corrected spelling mistakes in recommendations.</li> <li>3. In Gujarati version, added the term <i>heavy rainfall</i></li> <li>4. Recorded microbial were incorporated.</li> <li>5. Conducted the soil analysis and analyzed different organic matter with the help of Dr. Dhiraji Patel and then incorporated.</li> </ol> <p><b>Recommendation approved in Combined Joint AGRESO, AAU, Anand</b></p>
3	Effect of heading back and training on	<ol style="list-style-type: none"> <li>1. Rewrite the recommendation in a single</li> </ol>	<ol style="list-style-type: none"> <li>1. Recommendation was wrote in a single</li> </ol>

	growth, flowering, yield and quality in old orchards of mango cv. Kesar. <b>(Action by Research Scientist, RHRS, ACHF, NAU, Navsari)</b>	continuous sentence 2. In conclusion, mention <b>4 to 5m</b> instead of <b>5m</b> 3. Add the treatments given after head back 4. Use the word <i>head back</i> instead of heading back in the title 5. Add pest and disease information 6. Add the name of scientist, Sh. N.M. Patel as Co-Investigator	continuous sentence 2. In conclusion, mentioned <b>4 to 5m</b> instead of <b>5m</b> 3. Added the treatments given after head back 4. Used the word <i>head back</i> instead of heading back in the title 5. Added pest and disease information 6. Added the name of scientist, Sh. N.M. Patel as Co-Investigator <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
4	Varietal trial <b>(Action by Research Scientist, AES, Paria, NAU, Paria)</b>	1. Provide data on insect pest and disease incidence 2. Recast the recommendation as per suggestion.i.e., mixed planting of four varieties (Alphonso,Kesar, Sonpari and Bangalora) to be added in the recommendation	Data on insect pest was included and the recommendation was recasted as per suggestion as follows; and approved in the combined joint agresco “The farmers of South Gujarat growing mango are advised to grow varieties Alphonso, Sonpari, Kesar and Banglora for higher production with good economic return. However, Malgoa, Mankurad, Fernandin, Bombay Green and Kishen Bhog are not economical under south Gujarat condition. Varieties Alphonso and Sonpari gave higher TSS.” <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
5	Nutrient requirement under high density planting in banana cv. Grand Naine <b>(Action by Associate Research Scientist, FRS, Gandevi)</b>	1. Recast the recommendation and consult Dr. B.N. Patel 2. Make recommendation based on net profit instead of BC ratio (i.e. on the basis of T <sub>10</sub> ) Check data of soil sample analysis with the help of Dr. D.P. Patel	1. Recasted incorporating all the three suggestions <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
6	Fertigation studies in banana cv. Grand	1. Recast the economics table	Recasted incorporating all the three

	Naine (Action by Associate Research Scientist, FRS, Gandevi)	2. Make the recommendation based on net realization instead of BC ratio 1. Provide schedule of fertilizers application in tabular form in the recommendation	suggestions <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
7	Chemical manipulation for higher yield and quality in banana cv. Grand Naine (Action by Associate Research Scientist, FRS, Gandevi)	1. Tally common cost used in the economic calculation 1. Provide net realization in two way table 2. Suggestion made to keep for scientific community	Both the suggestions incorporated Recommended for scientific community <b>Recommendation approved for scientific community in Combined Joint AGRESCO, AAU, Anand</b>
8	Study of genetic variability in tamarind ( <i>Tamarindus indica</i> L.) from South Gujarat.	Recast the recommendation by adding some other clones based on pulp recovery > 45 % (GT1, GT2, GT5, GT10, GT11 and GT12). Take multi-location trial (MLT) at Paria and Waghai.	Recommendation was recast as per suggestions made by the house & already presented in 11 <sup>th</sup> Joint & Combined AGRESCO meetings. Unfortunately, Scientist (Horti.) was on medical leave for around 3 months from April to June due to which newly sprouted scions were not collected. Further in August the material was collected but sprouting of buds was not proper and grafts do not survived. So, MLT was not taken and now it will be conducted during this year. <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
9	Integrated nutrient management in little gourd	1. Use the name of GNLG-1 instead of local cultivar 2. Provide time of pruning in the recommendation 3. Confirm / check the calculation of variable cost for 50% RDF and 50% biocompost. Mention the cost of castor cake. 4. Check the CV (%) values in the observation - yield per plot and yield per ha 5. Modify the title as Integrated Nutrient	1. Replace the name of variety Local by GNLG-1 2. Incorporated the time of pruning in recommendation. 3. Variable cost for 50% RDF and 50% bio-compost checked and incorporated. Also cost of castor cake added. 4. Checked and corrected as per suggestion. 5. Title is modified as per suggestion. All the quarries are rectified as per suggestion.

		Management of Little gourd 6. Check the table 8 (There are anomalies)	<b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
10	Effect of different organics on growth, yield and fertility of soil in brinjal cv. Surti Ravaiya.	1. Remove the data of year 2010-11 in all the tables 2. Provide information on schedule of bio-pesticides used in the crop period	1. Data of year 2010-11 was removed as per suggestion. 2. Schedule of bio-pesticides use in the crop was incorporated. <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
11	Response of seed sowing on germination, growth, flowering and yield of Spine gourd ( <i>Momordica dioica</i> ).	1. Recast the table location and year wise (ex; Navsari year 1, Navsari year 2 and pool Navsari...so on) 2. Recast the recommendation for farm community instead of scientific community. 3. Correlate the data with climatic parameters.	Table are recast as per suggestion 2. Recommendation is recast for farming community. 3. Data are correlated with climatic parameters <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
12	Performance of greater yam ( <i>Dioscorea alata</i> L.) under different staking systems .	1. Delete decimal point in the table 4 2. Check the variable cost in T <sub>5</sub> of table 4 3. Provide fixed cost and variable cost in the appendix of PPT presentation	All the suggestions made in 11 <sup>th</sup> AGRSCO meeting were accepted, incorporated and the recommendation on greater yam was <b>passed as such in Combine Joint Meeting.</b>
13	Effect of rates of castor cake and Banana Pseudostem sap on yield and quality of organically grown Garlic ( <i>Allium sativum</i> L.) cv. GG-2	Accepted	<b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
14	Study of year round flower production in French marigold and it's growth and development in relation to weather.	<b><u>Sub committee</u></b> 1. Recast the recommendation based on the net realization. 2. Recast the economics table. 3. Remove the August month from the recommendation (only keep July) 4. Remove figures/values from recommendation (eg. BC ratio) 5. Consider irrigation in variable cost while calculating economics	1. Recasted recommendation based on the net realization. 2. Recasted the table of economics 3. Mentioned first week of July to first week of August as per suggestion of combined meeting 4. Removed BC ratio from recommendation 5. Considered irrigation as variable cost <b>Recommendation approved in Combined</b>

			<b>Joint AGRESCO, AAU, Anand</b>
15	Study of year round flower production in African marigold and it's growth and development in relation to weather.	<u><b>Sub committee</b></u> <ol style="list-style-type: none"> <li>1. Recast the recommendation based on the net realization.</li> <li>2. Recast the economics table.</li> <li>3. Remove the August month from the recommendation (only keep July)</li> <li>4. Remove figures/values from recommendation (eg. BC ratio)</li> <li>5. Consider irrigation in variable cost while calculating economics</li> </ol>	<ol style="list-style-type: none"> <li>1. Recasted recommendation based on the net realization.</li> <li>2. Recasted the table of economics</li> <li>3. Mentioned first week of July to first week of August as per suggestion of combined meeting</li> <li>4. Removed BC ratio from recommendation</li> <li>5. Considered irrigation as variable cost</li> </ol> <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
16	Standardization of color extraction technique from <i>Butea monosperma</i> (Palash) flowers for preparing herbal <i>gulal</i> .	<u><b>Accepted</b></u>	<b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
17	Preparation of Ready to Serve (RTS) beverage from banana pseudostem sap. (Action by Asso. Professor, PHT, ACHF, Navsari.)	<ol style="list-style-type: none"> <li>1. The house has suggested to present this recommendation in next year after incorporation of following suggestions: <ul style="list-style-type: none"> <li>• Ingredients should have been use at a time in all the treatments.</li> <li>• Vitamin C, pH and TSS should be reassessed.</li> </ul> </li> </ol> <p>Thermal processing parameter required to be optimized.</p>	<ul style="list-style-type: none"> <li>• Mixing of all the ingredients at each level will set a completely new experiment with different objective. At the stage of recommendation it is not possible to incorporate the suggestion. An experiment with suggested treatment combinations will be taken up as new experiment.</li> <li>• Data related pH and TSS was reassessed and found correct, while unit of 'Vitamin-C' corrected from mg/100 to g/100g. No need to optimize the thermal process parameters, as the standardized thermal processing parameter for pasteurization of juice in batch process and sterilization in glass bottles were already been published by Girdharilal, S. et.al. 2009 for RTS. It will be mentioned in the recommendation. If required new experiment will be taken for this objective also. <b>Recommendation not approved in Combined Joint AGRESCO,</b></li> </ul>

			<b>AAU, Anand</b>
18	Standardization of technology for processing of banana central core jam	Apply code for commercial JAM instead of Kissan Jam	Kissan trade name was replaced by Commercial brand from market. <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
19	Optimization of level of temperature and kms in processing of banana puree' from ripe banana at pilot scale	Accepted	<b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
20	Optimization of level of tss and anti-caking agent in spray solution for preparing powder from ripe banana at pilot scale	Accepted for scientific community	<b>Accepted for scientific community</b>
21	Characterization of pectate lyase in banana	Accepted for scientific community	<b>Accepted for scientific community</b>
22	Effect of nano-micronutrients (Zn and Cu) on physiology and stevioside production in stevia.	Accepted for scientific community	<b>Accepted for scientific community</b>
23	Screening for Resistance to <i>Fusarium</i> wilt in Tomato varieties	Accepted for scientific community	<b>Accepted for scientific community</b>
24	Detection of fungal pathogen from forest tree seeds <i>in vitro</i>	Accepted for scientific community	<b>Accepted for scientific community</b>
25	Growth and yield of Tannia ( <i>Xanthosoma sagittifolium</i> L. Schott.) as affected by different pruning intensities of tree crops	1. Remove figures (values) in the recommendation 2. In Economic calculation table- pruning material data needs to be checked as per ½ and 1/3rd of pruning of side branches 3. Add age of the tree in the recommendation 4. Use the sentence “pruning of side branches upto 1/3rd height of the tree from the ground level” in the recommendation	1. Fingure removed 2. Pruning data checked as per suggestion 3. Tree age added in ecommendation Sentence added in final recommendation <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
26	Rapid multiplication of <i>Bambusa vulgaris</i> through in vitro regeneration techniques from juvenile explant	1. Remove the word “treatment C5” and “T6” from the recom. 2. Provide unit of chemicals used in the recommendation 3. Provide cost of production of tissue	1. Word removed from recommendation 2. Unit of chemical provided 3. Cost of production provided in final recommendation <b>Recommendation approved in Combined</b>

		culture bamboo	<b>Joint AGRESCO, AAU, Anand</b>
27	Rapid multiplication of <i>Dendrocalamus.strictus</i> Nees. through <i>in vitro</i> regeneration techniques from juvenile explant	Provide raw data regarding number of plants used while calculation of plant survival %	Raw data provided in final recommendation <b>Recommendation approved in Combined Joint AGRESCO, AAU, Anand</b>
28	Collection and evaluation of <i>Mucuna</i> germplasm from South Gujarat for L-DOPA and protein content.	Accepted for scientific community	<b>Recommendation release for scientific community</b>

### NEW TECHNICAL PROGRAMMES

Sr. No.	Title of New Technical Programme	Suggestions from Research sub Committee held at Navsari	Suggestions from Combined Joint Agresco held at Anand	Action Taken
<b>FRUIT SCIENCE</b>				
1	Softwood grafting in mango cv. Kesar and sapota cv. Kalipatti (Action by <i>Research Scientist, RHRS, ACHF, NAU, Navsari</i> )	<b>Accepted with following suggestion/s</b> 1. Recast the title as per the discussion. 2. Add treatment of condition -open and controlled 3. Add age of rootstock Add objective on weather condition and correlation	<b>Accepted with following suggestion/s</b> 1. Age of rootstock 4 to 14 months instead of 6-18 month Use word poly house instead of green house	1.Title was recast as per the suggestion 2.Added treatment of condition -open and controlled 3.Added objective on weather condition and correlation 4.Taken rootstock of age of 6-18 month Used Poly house word
2	Inarch grafting in mango cv. Kesar (Action by <i>Research Scientist, RHRS, ACHF, NAU, Navsari</i> )	<b>Accepted with following suggestion/s</b> 1. Recast the title as per the discussion 2. Add observations on number of leaves instead of increment, duration of detachment of graft 3. Add economics	<b>Approved as such</b>	1.Title was recast as per the suggestion 2.Added observations on number of leaves instead of increment, duration of detachment of graft 3.Added economics
3	Evaluation of bio agent, fungicides and physical	<b>Accepted with following suggestion/s</b>	<b>Accepted with following suggestion/s</b>	1.Experiment was taken in bag and on raised bed both.

	method on germination and survival of mango ( <i>Mangifera indica</i> L.) stone. ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari</b> )	<ol style="list-style-type: none"> <li>1. Take experiment in bag and on raised bed both.</li> <li>2. Treatment of drenching should be given after one month of germination</li> <li>3. Add observation on disease and pest incidence</li> <li>4. Mention period of germination in days</li> <li>5. Add economics</li> </ol>	<ol style="list-style-type: none"> <li>1. Media should be sterilize (Bed &amp; Poly bag)</li> </ol>	<ol style="list-style-type: none"> <li>2. Treatment of drenching was given after one month of germination</li> <li>3. Added observation on disease and pest incidence</li> <li>4. Mentioned period of germination in days</li> <li>5. Added economics</li> <li>6. Sterilized media was used</li> </ol>
4	Effect of bio fertilizers on soil health, fruit yield and quality of Sapota cv. Kalipatti ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. Correct title as per discussion in the house</li> <li>2. Change the year of commencement to 2015-16</li> <li>3. Add observation on month wise yield data</li> </ol>	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. Title should be recast as "Integrated nutrient management on Sapota cv. Kalipatti</li> <li>2. Objective should be recast</li> </ol>	<ol style="list-style-type: none"> <li>1. Title was recast as "Integrated nutrient management on Sapota cv. Kalipatti</li> <li>2. Objectives was recast</li> <li>3. Changed the year of commencement to 2015-16</li> <li>4. Added observation on month wise yield data</li> </ol>
5	Screening of salt tolerant rootstock for mango from South Gujarat region ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. Recast the title as "Screening of rootstock for salt tolerance in mango from South Gujarat region"</li> <li>2. Add the name of Dr. D.P. Patel</li> <li>3. 20 stones /treatment should be taken</li> <li>4. Measure salinity of the place where the seedlings are collected</li> </ol>	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. S<sub>1</sub> should be treated as control</li> </ol>	<ol style="list-style-type: none"> <li>1. Title was recast as "Screening of rootstock for salt tolerance in mango from South Gujarat region"</li> <li>2. Added the name of Dr. D.P. Patel</li> <li>3. Taken 20 stones /treatment</li> <li>4. Measured salinity of the place where the seedlings are collected.</li> <li>5. S<sub>1</sub> treated as control</li> </ol>
6	Assessment of genetic diversity through D <sup>2</sup> analysis and molecular markers in mango ( <i>Mangifera indica</i> L.) ( <b>Action by Research</b> )	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. Add in text for Combined Joint Agresco</li> </ol>	<b>Approved as such</b>	<ol style="list-style-type: none"> <li>1. Added in text for Combined Joint Agresco</li> </ol>



	<i>Scientist, RHRS, ACHF, NAU, Navsari)</i>			
7	Hybridization in mango using L X T analysis( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari)</b> )	<b>Accepted with following suggestion/s</b> 1. Add Totapuri as a line	<b>Approved as such</b>	1.Added Totapuri as a line
8	Survey and selection of elite clones of mango ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari)</b> )	<b>Accepted with following suggestion/s</b> 1. Recast title and add seedling selection instead elite clone and restrict it to South Gujarat 2. Year of completion- mention long term experiment 3. Add observation on flowering characters, bearing habit, late, early or regular bearing etc	<b>Accepted with following suggestion/s</b> <b>1.</b> Observations to be recorded on growth parameters of mother plant <b>2.</b> Objectives should be specific for Phase I and the states are Gujarat, Maharashtra, MP	1. Title was recast and added seedling selection instead elite clone and restricted it to South Gujarat 2. Year of completion-mentioned long term experiment 3. Added observation on flowering characters, bearing habit, late, early or regular bearing etc 4. Observations was recorded on growth parameters of mother plant 5. Objectives was specific for Phase I and the states are Gujarat, Maharashtra, MP
9	Study the management efficiency of mango and sapota growers in Navsari district ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari)</b> )	<b>Approved as such</b>	<b>Approved as such</b>	<b>Approved as such</b>
10	Standardization of foam mat drying process for preparation of mango powder. ( <b>Action by Research Scientist, RHRS, ACHF,</b>	<b>Accepted with following suggestion/s</b> 1. Mention name of the variety Kesar, add periodic analysis upto 6 months, 2. Mention foam thickness 4 mm,	<b>Approved as such</b>	1. Mentioned name of the variety Kesar, added periodic analysis upto 6 months, 2. Mentioned foam thickness 4 mm, Taken the observation

	NAU, Navsari)	Take the observation on carotene content, microbial content, economics, ascorbic acid, 3. Flow chart to be given		on carotene content, microbial content, economics, ascorbic acid, 3. Flow chart was added
11	Standardization of suitable formulation for preparation of instant mango milk shake powder. (Action by <i>Research Scientist, RHRS, ACHF, NAU, Navsari</i> )	<b>Approved as such</b>	<b>Approved as such</b>	<b>Approved as such</b>
12	Standardization of protocol for the extension of shelf life of fresh sapota fruit. (Action by <i>Research Scientist, RHRS, ACHF, NAU, Navsari</i> )	<b>Accepted with following suggestion/s</b> 1. Mention marketable fruit and time of pre-cooling 8 hrs in study 2. Change the step of transportation after storage as per discussion, 3. Add name of J.M. Patel as co-investigator	<b>Accepted with following suggestion/s</b> 1. Observation to be recorded on PME	1. Mentioned marketable fruit and time of pre-cooling 8 hrs in study 2. Changed the step of transportation after storage as per discussion, 3. Added name of J.M. Patel as co-investigator 4. Observation added on PME
13	Effect of post flowering sprays on fruit retention and yield of mango cv. Kesar (Action by <i>Research Scientist, RHRS, ACHF, NAU, Navsari</i> )	<b>Accepted with following suggestion/s</b> 1. In title add-quality 2. In T <sub>2</sub> and T <sub>3</sub> Novel organic liquid fertilizer be add	<b>Accepted with following suggestion/s</b> 1. Title should be recast as "Effect of post flowering sprays of chemicals on fruit retention and yield of mango cv. Kesar" 2. Objectives should be recast as per the title.	1. Title was recast as "Effect of post flowering sprays of chemicals on fruit retention and yield of mango cv. Kesar" 2. Objectives were recast as per the title. 3. In T <sub>2</sub> and T <sub>3</sub> Novel organic liquid fertilizer be added
14	Effect of foliar spray of KNO <sub>3</sub> and plant growth regulators on flowering and fruiting behavior of mango cv. Alphonso (Action by <i>Research Scientist, RHRS, ACHF,</i>	<b>Approved as such</b>	<b>Approved as such</b>	<b>Approved as such</b>

	<i>NAU, Navsari)</i>			
15	Study the status and knowledge level of mango growers regarding mango malformation in Navsari district ( <b>Action by Research Scientist, RHRS, ACHF, NAU, Navsari)</b>	<b>Accepted with following suggestion/s</b> 1. Add Year of commencement	<b>Approved as such</b>	1. Added the year of commencement.
16	Precision farming in banana cv. Grand Naine ( <b>Action by Asso. Research Scientist, FRS, Gandevi NAU, Gandevi)</b>	Include methodology in text	<b>Approved as such</b>	Methodology included in text
17	Effect of bio-fertilizers and growth regulators and nutrients on fruit growth, yield and quality of sapota cv. Kalipatti ( <b>Action by Asso. Research Scientist, FRS, Gandevi, NAU, Gandevi)</b>	Accepted	1. Add micro word before nutrients 2. Correct Treatment-9 and Replication-3	Correction made as per suggestion
18	Effect of micronutrients on yield and quality of mango( <b>Action by Research Scientist, AES, Paria, NAU, Paria)</b>	<b>Accepted with following suggestion/s</b> 1. In treatment mention the dose of mango special IIHR and in T8 add RDF. Add Add observation on fruit retention and economics,	<b>Approved as such</b>	Dose of Mango Special (1%) was added and observation on fruit retention and economics will be recorded
19	Testing of exotic varieties of mango( <b>Action by Research Scientist, AES, Paria, NAU, Paria)</b>	<b>Accepted with following suggestion/s</b> 1. In treatment take 2 plants per treatment, instead of 10 2. Add observation on incidence of insect pest	<b>Accepted with following suggestion/s</b> T8, T9 and T10 treated as local check	T8 (Alphonso) T9 (Kesar) and T10 (Ratna) will treated as local check

		3. Time of flower initiation		
20	Assessing the effect of climatic aberrations on mango flowering and yield( <b>Action by Research Scientist, AES, Paria, NAU, Paria</b> )	Recast the experiment as per AICRP	<b>Approved as such</b>	Experiment is modified as per AICRP-F and approved as such in Combined Joint Agresco
21	Survey and selection of superior genotypes of Chironji ( <i>Buchanania lanzan</i> Speng.) from South Gujarat. ( <b>Action by Research Scientist, AES, Paria, NAU, Paria</b> )	<b>Accepted with following suggestion/s</b> 1. Recast the experiment and title as per discussion-selection and collection of germplasm of Chironji. 2. Select 2-3 mother plants from each source and raise known progenies from each mother plant and prepare 5-10 trees/ mother plants as per spacing.	<b>Approved as such</b>	The experiment was re-framed with title as "Survey and selection of superior genotypes of Chironji ( <i>Buchanania lanzan</i> Spreng.) from South Gujarat.
22	Management of mango malformation at farmer's field ( <b>Action by Research Scientist, AES, Paria, NAU, Paria</b> )	<b>Accepted</b>	<b>Accepted as such</b>	The experiment will be initiated during current year.
23	Effect of chemicals on fruiting behavior, yield and quality of mango cv. Kesar. ( <b>Action by Asso. Professor, CA, Bharuch, NAU, Navsari</b> )	<b>Approved as such</b>	<b>Approved as such</b>	Experiment had been started from before last year (PG student trial) and also taken as second year's trial from this year as per Approved in 11 <sup>th</sup> AGRESCO meeting.
24	Effect of foliar application of novel organic liquid fertilizer and micronutrients on yield and quality of Mango cv. Kesar ( <b>Action by Asso. Professor, CA, Bharuch,</b>	<b>Accepted with following suggestion/s</b> 1. In treatment add word Micronutrient before mixture Grade IV. 2. Add pulp : peel ratio observation	<b>Approved as such</b>	1. Micronutrient word has added in treatment before Mixture Grade IV. 2. We have added pulp : peel ratio in observation.

	NAU, Navsari)			
25	Effect of moisture conservation techniques on old ber orchard. ( <b>Action by Asso. Professor, CA, Bharuch, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> 1. Delete economics from objective. 2. Use silver plastic mulch instead of black plastic mulch. 3. Location Bharuch and Tanchha	<b>Approved as such</b>	1. Economics have deleted from objective 2. Silver plastic mulch have used instead of black plastic mulch 3. Included Bharuch location also with Tanchha
26	Effect of foliar fertilization on old ber orchard ( <b>Action by Asso. Professor, CA, Bharuch, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> 1. Treatment T2 and T5 should be merge. 2. Add treatment GA3 20 ppm. 3. Location Bharuch and Tanchha	<b>Approved as such</b>	1. Treatment T2 and T5 have been merged. 2. GA <sub>3</sub> 20 ppm treatment has been added. Included Bharuch location also with Tanchha.
27	Effect of moisture conservation techniques on old ber orchard. ( <b>Action by Asso. Professor, CA, Bharuch, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> 4. Delete economics from objective. 5. Use silver plastic mulch instead of black plastic mulch. 6. Location Bharuch and Tanchha	<b>Approved as such</b>	4. Economics have deleted from objective 5. Silver plastic mulch have used instead of black plastic mulch 6. Included Bharuch location also with Tanchha
28	Effect of foliar fertilization on old ber orchard ( <b>Action by Asso. Professor, CA, Bharuch, NAU, Navsari</b> )	<b>Accepted with following suggestion/s</b> 4. Treatment T2 and T5 should be merge. 5. Add treatment GA3 20 ppm. 6. Location Bharuch and Tanchha	<b>Approved as such</b>	3. Treatment T2 and T5 have been merged. 4. GA <sub>3</sub> 20 ppm treatment has been added. Included Bharuch location also with Tanchha.
	Effect of irrigation on flowering and yield of mango cv. Kesar ( <b>Action by Research Scientist, AES, Paria, NAU,</b>	<b>Presented in NRM (NEW)</b>	<b>Accepted with following suggestion/s</b> 1. Modify second objective with To study the effect of irrigation on yield	Objective is modified as 1 To study the effect of irrigation on yield 2 T1 treatment is changed as irrigation at the time of bud

	<i>Navsari</i>		2. T1 treatment should be On bud breaking time (2nd fortnight of October) 3. T2 treatment should be Initiation of flowering 4. Add one treatment On bud breaking time (2nd fortnight of Oct.) + Initiation of flower 5. Remove the soil properties observations	breaking (2nd fortnight of October) 3. T2 treatment, Irrigation at the time of Initiation of flowering 4. One treatment added as irrigation on bud breaking time (2nd fortnight of Oct.) + Initiation of flowering 5. Observations on the soil properties has removed
<b>VEGETABLE SCIENCE, ACHF, Navsari</b>				
29	Integrated Nutrient Management in Cabbage ( <i>Brassica oleracea</i> L.var Capitata) (Action by <i>Research Scientist, Veg. Sci., ACHF, NAU, Navsari</i> )	1. Recast the title as per treatments 2. Change the treatments for Standardization of dose	Accepted with following suggestion Spacing should be 45 cm x 45 cm instead of 60 cm x 45 cm	1. Title recast as per treatments 2. Treatments are change as per suggestion for standardization of dose 3. Spacing 45 cm x 45 cm is incorporated as per suggestion
30	Feasibility of vegetative propagation in parthenocarpic cucumber under NVPH (Action by <i>Research Scientist, Veg. Sci., ACHF, NAU, Navsari</i> )	Accepted	Add words in title “under polyhouse conditions” at end	The title of technical programme would be “Comparative performance of different parthenocarpic cultivars of cucumber through vegetative propagation under polyhouse conditions”.
31	Evaluation of parthenocarpic cultivars of cucumber under protected conditions for yield and other horticultural traits. (Action by <i>Research Scientist, Veg. Sci., ACHF, Navsari</i> )	Add observation on pest and disease incidence and economics	Approved as such	The observations on pest and disease incidence and economics have been incorporated.
32	Evaluation of tomato cultivars under NVPH for	<ul style="list-style-type: none"> <li>Select 8-10 varieties on the basis of filler trial.</li> </ul>	Approved as such	<ul style="list-style-type: none"> <li>Based on performance in first season, 8 out of 16 cultivars</li> </ul>

	yield and other horticultural traits. ( <b>Action by Research Scientist, Veg. Sci., ACHF, NAU, Navsari</b> )	<ul style="list-style-type: none"> <li>Add observation on quality parameters, pest and disease incidence and economics</li> </ul>		<p>were carried for further evaluation in second season.</p> <ul style="list-style-type: none"> <li>The observations on quality parameters, pest and disease incidence and economics have been incorporated.</li> </ul>
33	PET In Chillies	1. Add observation on Pungency (Capsacin content)	Approved as such	1. Incorporate observation on Pungency(Capsacin content)
34	Tomato (Determinate) IET	Approved as such	Approved as such	-
35	Tomato (Determinate) AVT-I	Approved as such	Approved as such	-
36	Tomato (Determinate) AVT-II	Approved as such	Approved as such	-
37	Tomato (Indeterminate) AVT-II	Approved as such	Approved as such	-
38	Chillies AVT-I	Approved as such	Approved as such	-
39	Chillies AVT-II	Approved as such	Approved as such	-
40	Ash gourd AVT-II	Approved as such	Approved as such	-
41	Pumpkin IET	Approved as such	Approved as such	-
42	Bitter gourd hybrid-IET	Approved as such	Approved as such	-
<b>FLORICULTURE, ACHF, Navsari</b>				
43	Exploration and evaluation of local flora for value addition through dehydration. ( <b>Action by Asso. Prof. (Flori.), ACHF, NAU, Navsari</b> )	<ol style="list-style-type: none"> <li>Add Sample size</li> <li>Write drying instead of dehydration</li> </ol>	1. Add common name of weed	<ol style="list-style-type: none"> <li>Sample size -10 No.</li> <li>Mentioned dehydration word 1.Added common names of weed</li> </ol>
44	Standardization of dehydration technique in Rose var. Top secret, Gold Strike and Rewine. ( <b>Action by Asso. Prof. (Flori.), ACHF, NAU, Navsari</b> )	<p><b><u>Sub committee</u></b></p> <ol style="list-style-type: none"> <li>Write drying instead of dehydration,</li> <li>Sample Size 20 flowers with 3 repetition,</li> <li>Mention oven temperature, Add economics</li> </ol>	1. In treatment silica and sand grade should be mention	<ol style="list-style-type: none"> <li>Mentioned dehydration word</li> <li>Mentioned Sample Size 20 flowers with 3 repetition</li> <li>Oven Temperature 45 degree C. and added economics 1. Silica gel and sand ( 60-120 mesh)</li> </ol>
45	Assessment of genetic	<b><u>Sub committee</u></b>	<b>Not approved</b>	<b>Not approved</b>

	diversity of pot roses in soilless media under Greenhouse conditions <b>(Action by Asso. Prof. (Flori.), ACHF, NAU, Navsari)</b>	1. Submit the details of New Technical programme for combined joint Agresco In Observation: Add physiological and biochemical parameters and pest and diseases incidence		
46	Genetic variability studies in Adenium using soilless media under Greenhouse condition <b>(Action by Asso. Prof. (Flori.), ACHF, NAU, Navsari)</b>	1. Submit the details of New Technical programme for combined joint Agresco	Approved as such	1. Submitted details for combined joint AGRESCO 1. Recasted title as per suggestion 2. Removed the name of Sachin Chavan 3. Added hardening observation
<b>PHT ACHF, Navsari</b>				
47	Processing And Value Addition Of Watermelon [Citrullus lanatus]" <b>(Action by Asso. Professor, PHT, ACHF, Navsari.)</b>	Approved	Accepted with following suggestion/s 1. Add observation on Viscosity in Part 2 2. Use inner albedo portion of rind instead of rind in Part 3	1. In Part 2, observation on viscosity has been added. 2. In Part 3 of the experiment, the word "rind" has been replaced with the "albedo" in the title. After correction title is "To standardize the process for preparation of the candy from Watermelon albedo".
48	Standardization of technology for foam mat dehydration of sapota for powder making <b>(Action by Asso. Professor, PHT, ACHF, Navsari.)</b>	Approved	Accepted with following suggestion/s 1. Use Repetition instead of replication	1. The "repletion has been used instead of "Replication".
49	Standardization of technology for foam mat dehydration of mango for powder making	Approved	Accepted with following suggestion/s 1. Use Repetition instead of replication	1. The "repletion has been used instead of "Replication".



	<i>(Action by Asso. Professor, PHT, ACHF, Navsari.)</i>			
	Study the effect of hot water dip treatment on the eradication of fruit fly, ripening and quality of mango for export purpose (cv. Kesar and Alphonso) <i>(Action by Asso. Professor, PHT, ACHF, Navsari.)</i>	(NEW)	Accepted with following suggestion/s 1. Treatments should be divided in two factors with two controls Factor I: Temperature- 48,50, 52 and 550 C Factor II Dipping time- 5, 10, 15 & 20 min. 2. Design FCRD instead of CRD 3. Storage period upto 20 days	1.Treatments have been divided into two factors with two controls Factor I: Temperature- 48,50, 52 and 550 C Factor II Dipping time- 5, 10, 15 & 20 min. 2. Design FCRD has been used instead of CRD 3. Storage period has been extended upto 20 days
<b>NRM , ACHF, Navsari</b>				
50	Effect of alternate raw planting and liquid manures on quality and productivity of banana-papaya under organic farming.	1. Recast title. 2. Change forth objective and to work out the economics of different treatment.	Approved as such	1.Title is recast as “Effect of liquid manures on quality and productivity of banana and papaya grown under alternate row system”. 2. Forth objective is modified as,To work out the economics of different treatment.
<b>BIOTECH</b>				
51	Microspore culture in eggplant for crop improvement	<b>Accepted with following suggestion/s</b> 1. Research should be restricted upto anther culture only. 2. Title should be modified as “Standardization of microspore culture in egg plant”. 3. Modify the objective as per title and restricte upto anther culture of F1.		Research will be restricted upto anther culture of F1. Title and objective has been modified as per suggestion.
52	Effect of exogenous application of brassinosteroid	Accepted with following suggestion/s	Replace ppm with mg l <sup>-1</sup> . 2. Include SOD enzyme in	1. Cost benefit ration will be calculated.

	on yield and quality of tomato ( <i>Solanum lycopersicum</i> L.)	<ol style="list-style-type: none"> <li>1. Calculate cost benefit ratio.</li> <li>2. Take observations for shelf life of tomato.</li> <li>3. Also take average weight of 5 fruits/plant</li> <li>4. In factor II take spray treatments as under T0=No Spray (control) T1=25 days after transplanting T2=25+50 DAT T3=25+50+75 DAT T4=50+75 DAT T5=75 DAT</li> </ol>	biochemical analysis. <ol style="list-style-type: none"> <li>3. Mention Net and Gross plot size.</li> <li>4. Experiment may be modified to include additional variety and reduce number of sprays after reviewing first year results, if necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Observations for shelf life of tomato will be taken.</li> <li>2. Average weight of 5 fruits/plant will be taken.</li> </ol> In factor II spray treatments has been modified as per suggestion. In the place of ppm the concentration will be expressed in mg l <sup>-1</sup> . <ol style="list-style-type: none"> <li>2. SOD enzyme will be included in biochemical analysis.</li> <li>3. Net plot size: 2.25m x 1.35m and Gross plot size: 3.75m x 2.25m</li> <li>4. Decision will be taken after results of first year.</li> </ol>
53	Effect of pre-harvest water stress on yield and post harvest quality of cabbage ( <i>Brassica oleraceae</i> var. capitata L.)	<b>Accepted with following suggestion/s</b> <ol style="list-style-type: none"> <li>1. Replication should be 8 instead of 7.</li> <li>2. Yield and nutritional quality should be studied.</li> <li>3. As this experiment is repetition of PG student research, so report one year data of PG student and add his name as co-investigator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Include moisture content in biochemical analysis.</li> <li>2. Include Net and Gross plot size.</li> <li>3. Replace “water content” by “water quantity”</li> <li>4. Add observation on head cracking (%). [This suggestion was suggested as per code no. <b>11.4.2.64</b> in the subcommittee of Horticulture and Agroforestry]</li> </ol>	<ol style="list-style-type: none"> <li>1. Replication is kept 8 instead of 7.</li> <li>2. Yield and nutritional quality will be studied.</li> <li>3. One year data of PG student will be reported and the name of student will be added as co-investigator</li> </ol> <ol style="list-style-type: none"> <li>1. Moisture content will be included in biochemical analysis.</li> <li>2. Net plot size: 1.8m x 0.9m and Gross plot size: 2.75m x 1.5m</li> <li>3. Water content will be replaced by water quantity.</li> <li>4. Observation on head cracking will be added.</li> </ol>

FORESTRY				
55	Annual biomass, volume and carbon stock estimation of <i>Melia composita</i> Willd. through destructive method ( <b>Action by Principal(Forestry), ACHF, NAU, Navsari</b> )	Accepted	Accepted	Experiment started after incorporating suggestions by combined joint AGRESCO meeting
56	Refinement of protocol for mass multiplication of Teak ( <b>Action by Principal(Forestry), ACHF, NAU, Navsari</b> )	Recast the Title	Accepted	Standardisation of protocol for mass multiplication of Teak Experiment started
57	Influence of weather parameters on foraging activity of stingless bees ( <i>Tetragonula iridipennis</i> Smith) near the nests ( <b>Action by Principal(Forestry), ACHF, NAU, Navsari</b> )	Accepted	Accepted	Experiment started
58	Nesting habitat and nest architecture of stingless bees ( <i>Tetragonula iridipennis</i> Smith) in South Gujarat condition ( <b>Action by Principal(Forestry), ACHF, NAU, Navsari</b> )	Accepted	Accepted	Experiment started
59	Domestication of stingless bees ( <i>Tetragonula iridipennis</i> Smith) ( <b>Action by Principal(Forestry), ACHF, NAU, Navsari</b> )	Accepted	Accepted	Experiment started

