

**Proceedings of the 13<sup>th</sup> meeting of AGRESCO, Horticulture sub-committee, Navsari  
Agricultural University- Navsari  
(March 3-4, 2017)**

**Inaugural session:**

The inaugural function of 13th Horticulture Sub-committee meeting was organized at Swami Vivekanand Hall, ACHF-Navsari, at 9am on 3rd March 2017. The programme started with the floral welcome by Dr. D. K. Sharma to all the guests and lighting the lamp of wisdom by the dignitaries. Hon'ble Vice Chancellor Dr. C J Dangaria, Director of Research and Dean PG Studies, Dr. S. R. Chaudhary, Principal and Dean, ACHF, Dr. B N Patel, Principal of Gujarat Agricultural Biotechnology Institute (ASABI) .The inaugural session was presided over by the Hon'ble Vice Chancellor, Dr. C J Dangaria.

Dr. B N Patel, Principal and Dean, ACHF, extended a warm welcome to Hon'ble Vice Chancellor, Director of Research and Dean PG Studies, Convener of the committee, Principal, ASABI, as well all the professors, scientists, faculty and staff. He emphasized on doubling the farmer's income by using latest technologies like IPM, INM, Canopy management, Mechanization, implementation of crop specific GAP etc. The action taken report of last AGRESCO was presented by Dr. D.K. Sharma and it was approved by the house.

Dr. S. R. Chaudhary, Director of Research and Dean PG Studies, appreciate the scientists for bringing recommendations and new technical programme in good numbers. He emphasized on quick response towards incorporating the suggestions made by the house before Joint AGRESCO meeting. He extended his best wishes to entire group for fruitful outcomes.

Hon'ble Vice Chancellor, Dr. C. J. Dangaria, in his presidential address, congratulates the scientist for their contribution and showed the path for future work. He emphasized on initiating the focussed work on the problem faced by farmers. A scientist should work honestly, creatively in the favour of the farmers of this region. He highlighted the need of farming system based multi disciplinary research work to provide technical solution for the problems faced by the farmers.

**Technical Session I Recommendations:****Chairman: Dr. S. R. Chaudhary, Hon. Director of Research & PG Dean, NAU, Navsari****Co-chairman: Dr. B.N. Patel, Dean, ACHF, NAU, Navsari****Reporters: Dr. Temur Ahlawat and Dr. D. R. Bhanderi**

Sr. No.	Title of the Experiments	Suggestions	Remarks
<b>DEPARTMENT OF FRUIT SCIENCE</b>			
1	Effect of temperatures on regimes on flowering of mango cv. Alphonso <b>(Action: Head, Fruit Science)</b>	1. In recommendation, the word should be “bigger panicles” and not “flowering panicle”. 2. In data, retain two digits after decimals. Temperature could not be maintained for longer period in the afternoon and therefore the experiment was proposed to be concluded.	Concluded
2	Seasonal influence on nutritional and physiological changes associated with flowering and fruiting behaviours in mango <b>(Action: Head, Fruit Science)</b>	In recommendation write “contents” instead of “content”. Remove those nutrient contents which are not significant from the recommendation. Instead of “pattern” use “maximum” or higher word. Instead of “physiological activities” mention the respective parameters.	Approved for Scientific Community
3	Effect of time and dose of fertilizer application on yield and quality of sapota cv. Kallipati <b>(Action: Head, Fruit Science)</b>	1. Incorporate the yield data for entire year in the recommendation. 2. Present the data as per season 3. Recast Table 13 to include data from November to May 4. Calculate economics in consultation with economist to maintain uniformity for deriving B:C	Deffered
<b>DEPARTMENT OF VEGETABLE SCIENCE</b>			
1	Release proposal of tomato NTL-12-07 (Proposed name :GNT-1) <b>(Action: Head, Vegetable Science)</b>	Approved as such	Approved
2	Effect of rhizome size on growth and yield off turmeric cv. GNT-1. <b>(Action: Head, Vegetable Science)</b>	1. In recommendation, write net realization instead of cost benefit ratio. Remove least amount of mortality from the recommendation 2. Use seed rhizome instead of seed rate 3. Use rhizome instead of mother rhizome	Approved
3	Standardization of fertigation and methods of training in capsicum under naturally ventilated polyhouse. <b>(Action: Head, Vegetable Science)</b>	1. Rectify the spelling of shelf life 2. Avoid using the word “Note” in the proposal. 3. Mention the variable cost of cultivation in the appendix 4. In gujarati recommendation, modify the duration 120 to 120 days and 150 to 120 days. 5. Mention the details of water soluble fertilizers 6. In table 11, confirm whether it is P or P2O5 7. In table 12, confirm whether it is K or K2O 8. Titles of Table 11 or 12 are incomplete 9. Period of growth should be 31-60, 61 to 90 and so on	Approved

4	Integrated Nutrient Management in cauliflower ( <i>Brassica oleracea</i> var. botrytis) <b>(Action: Head, Vegetable Science)</b>	<ol style="list-style-type: none"> <li>1. Mention units for all parameters studies.</li> <li>2. Recast the recommendation</li> <li>3. In treatment details, mention the amount of fertilizers/biofertilizers applied.</li> <li>4. Confirm the plot size while omitting ring line from both the sides in ring area.</li> <li>5. Analyze all biofertilizers for deciding the nutrient content in them.</li> <li>6. Check the economics, particularly the variable cost of different biofertilizers. Confirm the calculations of economics for application of FYM</li> </ol>	Deffered
5	Evaluation of parthenocarpic cultivars of cucumber under protected conditions for yield and other horticultural traits. <b>(Action: Head, Vegetable Science)</b>	<ol style="list-style-type: none"> <li>1. The word “recommendation” should not be included in the text of the proposal. Instead use the term “Information”</li> <li>2. Recast the recommendation “1000 m2 under naturally ventilated house”. Recast the proposal based on per se performance.</li> </ol>	Approved
6	Evaluation of tomato cultivars under NVPH for yield and other horticultural traits. <b>(Action: Head, Vegetable Science)</b>	<ol style="list-style-type: none"> <li>1. The word recommendation should not be included in the text of the proposal. Instead use the term “Information”</li> <li>2. Recast the proposal based on <i>per se</i> performance.</li> </ol>	Approved
<b>DEPARTMENT OF FLORICULTURE AND LANDSCAPE ARCHITECTURE</b>			
1	Effect of irrigation levels and mulching on growth and yield of tuberose ( <i>Polygonum tuberosum</i> ) var. Prajwal <b>(Action: Head, Dept. of Floriculture)</b>	<ol style="list-style-type: none"> <li>1. Calculate economics in consultation with economist to maintain uniformity for deriving B:C</li> <li>2. Remove bulblet yield from economic table</li> <li>3. Recast economics</li> <li>4. SEM <math>\pm</math> and CD should be corrected</li> </ol>	Deferred Call explanation for the difference in published statistical data of previous year.
2	Effect of deleafing and foliar nutrient application for offseason flowering in Spider lily ( <i>Hymenocallis littoralis</i> ) <b>(Action: Head, Dept. of Floriculture)</b>	<ol style="list-style-type: none"> <li>1. Calculate economics in consultation with economist to maintain uniformity for deriving B:C</li> <li>2. Recast the recommendation in English language</li> <li>3. Mention RDF in recommendation</li> <li>4. Mention production data for entire year</li> </ol>	Approved
3	Effect of foliar spray of polyamines and banana enriched sap on Rose ( <i>Rosa hybrida</i> L.) cv. Top Secret under polyhouse conditions <b>(Action: Head, Dept. of Floriculture)</b>	<ol style="list-style-type: none"> <li>1. Calculate economics in consultation with economist to maintain uniformity for deriving B:C</li> <li>2. Mention the time of spray</li> <li>3. Mention CV% in table</li> <li>4. Mention fertigation in proposal</li> <li>5. Mention the nutrient composition of banana enriched sap</li> <li>6. Stem width should be mentioned in mm</li> <li>7. Stem width should be mentioned as stem diameter</li> </ol>	Deferred Continue experiment for one more year.
4	Exploration and evaluation of local weed flora for value addition through drying <b>(Action: Head, Dept. of Floriculture)</b>	<ol style="list-style-type: none"> <li>1. Mention as footnote that nine weeds were evaluated instead of ten.</li> <li>2. Mention objectives and background information</li> <li>3. Avoid using the word for farmers</li> <li>4. Mention useful life instead of shelf life</li> <li>5. Confirm the method of treatment whether it is drying or dehydration. Rectify CRD</li> <li>6. When the New Technical Program was approved, PI was Rashmikant Gurjar. Alka Singh, R.B. Patel and S.L. Chawla were Co-</li> </ol>	Present this reco. in Combined Joint AGRESCO of Agril. Engineering and Food Processing group  Presentation shall be made only after the explanation

		investigators. However when presented in 13 <sup>th</sup> Agresco of Horticulture Subcommittee on 3/3/2017, Dr. Alka Singh has presented the recommendation as PI with two members that is Ankit Bhandari and H. N. Chhatrola as Co-PI. The name of original PI, Rashmikant Gurjar, R. B. Patel and S.L. Chawla were omitted without any justification. So, explanation should be called for under what circumstances and capacity such changes have been made.	forwarded is found satisfactory.
5	Standardization of dehydration technique in Rose var. Top Secret, Gold Strike and Rewine. <b>(Action: Head, Dept. of Floriculture)</b>	<ol style="list-style-type: none"> <li>1. Mention storage life in recommendation</li> <li>2. Data should be properly presented and Recast the recommendation</li> <li>3. Mention capacity of microwave oven</li> <li>4. Mention ratio of silica gel to flowering</li> <li>5. Mention Cv%. Continue the experiment for one more year and make recommendation after collecting third year data.</li> </ol>	Deferred Present this reco also in AGRESKO of Agril Engineering and Food Processing group after one year of experimentation
<b>DEPARTMENT OF POST HARVEST TECHNOLOGY</b>			
1	Development of technology for dehydration of onions rings for adoption at commercial scale <b>(Action: Head, Dept. of PHT)</b>	Suggestions were made by last Combined Joint Agresco of Agricultural Engineering and Food Processing. Hence, the recommendation will be presented in the Combined Joint Meeting this year	Approved earlier
2	Development of technology for dehydration of okra slices for adoption at commercial scale <b>(Action: Head, Dept. of PHT)</b>	Suggestions were made by last Combined Joint Agresco of Agricultural Engineering and Food Processing. Hence, the recommendation will be presented in the Combined Joint Meeting this year	Approved earlier
3	Development of technology for dehydration of cauliflower for adoption at commercial scale <b>(Action: Head, Dept. of PHT)</b>	Suggestions were made by last Combined Joint Agresco of Agricultural Engineering and Food Processing. Hence, the recommendation will be presented in the Combined Joint Meeting this year	Approved earlier
4	Effect of hot water dip treatment on the eradication of fruit fly, ripening and quality of mango for export purpose (cvs. Kesar and Alphonso) (11.4.2.60) <b>(Action: Head, Dept. of PHT)</b>	Rectify the title of the recommendation in report. It is “eradication” and not “radiation”.	Approved
5	Standardization of technology for preparation of unripe banana ( <i>Musa paradisiaca</i> L.) powder for commercial adoption <b>(Action: Head, Dept. of PHT)</b>	<ol style="list-style-type: none"> <li>1. Recast the Gujarati recommendation. Avoid using the word “processors”.</li> <li>2. In economics, MRP of 100 g powder should be same.</li> <li>3. Recast the recommendation indicting the second best treatment (Aluminium laminate)</li> <li>4. Remove 18 hours from recommendation</li> <li>5. Recommend only moisture content.</li> </ol>	Approved
6	Effect of pre-treatments on quality attributes of dehydrated green chilli powder <b>(Action: Head, Dept. of PHT)</b>	Recast recommendation in Gujarati. Remove the word “processors” as well as “farmers”. It should be “bad” and not “vad”. It should be “mavjat” instead of “purv sarvar”..	Approved

<b>FRUIT RESEARCH STATION, GANDEVI</b>			
1	Effect of time of fertilizer application on yield and quality of sapota cv. Kalipatti. <b>(Action: Head, FRS, Gandevi)</b>	Analyze common characters for Navsari and Gandevi for years 2013-14, 2014-15 and 2015-16. Consider November-February as winter season; March-June as summer season and July-Oct as monsoon season for presenting data. For Gandevi, take average price of season	Deferred
<b>COLLEGE OF AGRICULTURE, BHARUCH</b>			
1	Effect of chemicals on fruiting behavior, yield and quality of mango cv. Kesar <b>(Action: Head, Dept. of Hort., CoA, Bharuch)</b>	Not accepted because of gross statistical error. Analyze original data using appropriate statistical tool in consultation with statistician. Call explanation for the gross statistical error with a copy to the D.R. and the convener.	Not accepted
2	Effect of plant growth regulators on growth, yield and quality of ber ( <i>Zizyphus mauritiana</i> Lamk.) <b>(Action: Head, Dept. of Hort., CoA, Bharuch)</b>	Not accepted because of gross statistical error. Analyze original data using appropriate statistical tool in consultation with statistician. Call explanation for the gross statistical error with a copy to the D.R. and the convener.	Not accepted
3	Preparation and standardized technique of guava and papaya blended RTS <b>(Action: Head, Dept. of Hort., CoA, Bharuch)</b>	1. Make recommendation based on acceptability and not economics 2. Rectify the spelling of shelf life in the proposal and ppt 3. Recast the recommendation and recalculate re-calculate the economics. Consult Dr. Dev Raj and Er. Parag Pandit	Approved Present this reco in. Combined Joint AGRESCO of Agril. Engineering and Food Processing
<b>THE HORTICULTURE POLYTECHNIC, NAVSARI</b>			
1	Intercropping of different crops in the mango orchard. <b>(Head, Dept. of Hort., CoA, Bharuch)</b>	There should be nine treatments including sole crops. Recast the recommendation accordingly	Deferred
<b>SOIL AND WATER MANAGEMENT UNIT, NAVSARI</b>			
1	Effect of different colour shade nets on biomass, yield and quality of fenugreek, coriander and garlic. <b>(Action, Head, SWMRU)</b>	Approved	Approved
<b>AGRICULTURE EXPERIMENTAL STATION, PARIJA</b>			
1	Varietal screening of cashew apple for preparation of RTS and Jam <b>(Action: Research Scientist, Paria)</b>	1. Mention units in all tables 2. Recast the recommendation 3. Mention recipe in recommendation	Approved Present this reco in. Combined Joint AGRESCO of Agril. Engineering and Food Processing group

## Technical Session: 2 New Technical Programmes

<b>Chairman</b>	Dr. B. N. Patel, Dean, ACHF, NAU, Navsari
<b>Co-Chairman</b>	Dr. B. R. Parmar, Prof. and Head (Fruit Science), ACHF, NAU, Navsari
<b>Rapporteur</b>	Dr. S. J. Patil and Dr. S. L. Chawla, Associate Professor, ACHF, NAU, Navsari

SN	Title	Suggestions
<b>FRUIT SCIENCE</b>		
<b>Department of Fruit Science, ACHF, NAU, Navsari</b>		
1	Effect of heading back and pruning on growth and yield of high density planting orchard of mango cv. Kesar.	<p><b>Approved with the following suggestions:</b></p> <ol style="list-style-type: none"> <li>1. Investigators: PI –Dr. B.N. Patel and Co PI- Dr S.J. Patil remaining as such</li> <li>2. Intercropping of vegetable as per suggestion of Professor and Head, Vegetable Science</li> <li>3. Design will be Large Plot Technique (data analysis in CRD)</li> <li>4. Mention time of heading back</li> </ol> <p><b>(Action : Dean, ACHF)</b></p>
2	Effect of heading back and pruning on growth and yield in sapota cv. Kalipatti planted at normal distance.	<p><b>Approved with the following suggestions:</b></p> <ol style="list-style-type: none"> <li>1. Investigators: PI –Dr. B.N. Patel and Co PI- Dr B. M. Tandel remaining as such</li> <li>2. Intercropping of vegetable as per suggestion of Professor and Head, Vegetable Science</li> <li>3. Design will be Large Plot Technique (data analysis in CRD)</li> <li>4. Mention time of heading back</li> </ol> <p><b>(Action: Dean, ACHF)</b></p>
3	Effect of heading back and pruning on growth and yield in sapota cv. Kalipatti planted at high density plantation.	<p><b>Approved with the following suggestions:</b></p> <ol style="list-style-type: none"> <li>1. Investigators: PI –Dr. B.N. Patel and Co PI- Dr B. M. Tandel remain as such</li> <li>2. Intercropping of vegetable as per suggestion of Professor and Head, Vegetable Science</li> <li>3. Design will be Large Plot Technique (data analysis in CRD)</li> <li>4. Mention time of heading back</li> </ol> <p><b>(Action: Dean, ACHF)</b></p>
4	Effect of different foliar application of organics on management of mango malformation	<p><b>Approved with the following suggestions:</b></p> <ol style="list-style-type: none"> <li>1. Delete management word from objectives</li> <li>2. Add treatments of Bio agent alone and Novel organic 1 %</li> <li>3. Delete Bio-agent from T<sub>5</sub>, T<sub>6</sub> and T<sub>7</sub> treatments</li> <li>4. Add name of Dr. B.R. Parmar in investigator</li> </ol> <p><b>(Action: Research Scientist, RHRS)</b></p>
5	Response of foliar spray of novel organic liquid fertilizer and micronutrients on yield and quality of banana cv. Grand Nain	<p><b>Not Approved</b></p> <p>Reason: Because of higher concentration of micronutrients and non significant interaction of students data</p> <p><b>(Action to be taken: Associate Professor, ACHF)</b></p>
6	Effect of heading back and training on growth, flowering and yield of different varieties of aonla.	<p><b>Not Approved</b></p> <p>Reason: Because of unavailability of homogeneous planting material and Aonla is not crop of this area</p> <p><b>(Action : Asst. Research Scientist, Instructional Farm)</b></p>
7	Intercropping of different crops under rejuvenated old mango orchard	<p><b>Not Approved</b></p> <p>Reason: Because of unavailability of homogeneous planting material (different varieties and different spacing of mango)</p> <p><b>(Action : Asst. Research Scientist, Instructional Farm)</b></p>

<b>FRS, Gandevi</b>		
8	Evaluation of the field performance of the macro propagated plants of banana	<b>Approved with the following suggestions:</b> Add observation of Sigatoka <b>(Action : Associate Research Scientist, FRS, Gandevi)</b>
9	Alleviation of soil moisture deficit stress in banana	Approved as such <b>(Action : Associate Research Scientist, FRS, Gandevi)</b>
10	Net house cultivation of papaya	<b>Approved with the following suggestions:</b> 1. Mention percentage of net house 2. Mention number of samples instead of replications <b>(Action: Associate Research Scientist, FRS, Gandevi)</b>
11	Evaluation of new hybrids of sapota	<b>Approved with the following suggestions:</b> Add check as Kalipatti <b>(Action: Associate Research Scientist, FRS, Gandevi)</b>
<b>AES, Paria</b>		
12	Effect of foliar application of fertilizers on flowering, yield and quality of cashew ( <i>Anacardium occidentale</i> L.) cv. Vengurla-4.	<b>Approved with the following suggestions:</b> Write Novel Organic Liquid Fertilizer Take two factors 1. NOLF: 0 and 1% 2. Fertilizers: 1 to 5 treatments <b>(Action : Research Scientist, AES, Paria)</b>
<b>NMCA</b>		
13	Effect of different colour shade net on germination and seedling growth of papaya ( <i>Carica papaya</i> ) var. Red Lady	<b>Conditionally approved</b> 1. Minimum 100 seeds per treatment 2. Add observation of damping off 3. Consult to Dr C.S. Desai, SWMRU 4. Objective To know the effect of different color ..... 5. Mention about bag size and media 6. Five net house treatment and one open condition 7. Take observation of temperature, humidity, light intensity <b>(Action : Prof. and Head, Horticulture, NMCA)</b>
<b>SWMRU, Navsari</b>		
14	Effect of different cultivation practices of yield and quality of banana pseudostem sap	Approved as such <b>(Action : Research Scientist, SWMRU, Navsari)</b>
15	Development of new formulations for adding insecticidal properties in banana pseudostem sap	<b>Approved with the following suggestions:</b> Add botanical name of plants instead of local name <b>(Action: Research Scientist, SWMRU, Navsari)</b>
<b>Horticulture Polytechnic, Navsari</b>		
16	Effect of organic liquid fertilizers on growth, yield and quality of organically grown mango cv. Kesar	<b>Approved with the following suggestions:</b> 1. Modify title as 'Effect of organics on yield and quality of organically grown mango cv. Kesar' 2. Remove 2 and 3 % NOLF and take only 1 % 3. Add fruit set, drop per cent, fruit retention at pea, marble and harvest stage, days to maturity in observations and fruit weight 4. Also add quality observations at eating stage; PLW at 3 days interval 5. Add leaf analysis before and 15 days after spray <b>(Action: Principal, Horticulture Polytechnic, Navsari)</b>

<b>VEGETABLE SCIENCE</b>		
<b>Department of Vegetable Science, ACHF, NAU, Navsari</b>		
1	Response of Greater Yam ( <i>Dioscorea alata</i> L.) to Different Growing Conditions.	<b>Conditionally approved</b> 1. Present the data of second year to committee of Dr. N.B. Patel, Dr S.J. Patil, Prof. H.N. Chatrola and Dr K. D. Desai before Combined Joint AGRESCO 2. Recommendation will be presented after submission of Ph.D. thesis of Mr. J.M. Vashi <b>(Action: Prof. and Head, Vegetable Science, ACHF)</b>
2	Different media used for storage of spine gourd tubers.	<b>Approved with the following suggestions:</b> 1. Fix the duration to observe germination 2. Apply common treatment of carbendazim 3. Modify title as effect of media for storage of spine gourd tubers <b>(Action: Prof. and Head, Vegetable Science, ACHF)</b>
3	Standardize the fertilizer dose of the Drumstick ( <i>Moringa spp.</i> )	<b>Approved with the following suggestions:</b> 1. Modify title as Standardization of fertilizer dose for Drumstick ( <i>Moringa spp.</i> ) var. PKM-1 2. Mention pruning time and fertilizer application time 3. Mention NPK instead of NKP <b>(Action : Prof. and Head, Vegetable Science, ACHF)</b>
4	Artificial oscillation for increasing fruit set and performance of tomato in polyhouse under South Gujarat conditions	Approved as such <b>(Action :Prof. and Head, Vegetable Science, ACHF)</b>
5	Effect of different sources of nutrients and fertigation levels on yield and other horticultural traits in tomato under protected culture.	<b>Approved with the following suggestions:</b> Mention the name of fertilizers <b>(Action: Prof. and Head, Vegetable Science, ACHF)</b>
6	Effect of antitranspirants under different irrigation levels on growth, yield and other component traits of bell pepper in polyhouse conditions	<b>Not approved :</b> <b>(Action :Prof. and Head, Vegetable Science, ACHF)</b>
7	Parthenocarpic fruit development through various PGRs in musk melon under protected conditions.	Approved as such <b>(Action :Prof. and Head, Vegetable Science, ACHF)</b>
8	Effect of different light sources on growth and quality of microgreens.	<b>Approved with the following suggestions:</b> 1. Write commencement year 2017-18 instead of 2016-17 2. Add days to sprouting and harvest <b>(Action : PI, AICRP on tuber crops)</b>
9	IET on orange flesh sweet potato	Experiment will be taken when material is available. <b>(Action : PI, AICRP on tuber crops)</b>
10	IET on Elephant foot yam	Experiment will be taken when material is available. <b>(Action : PI, AICRP on tuber crops)</b>
11	Validation of organic farming technology in elephant foot yam.	<b>Approved with the following suggestions:</b> Add yield per plant <b>(Action : PI, AICRP on tuber crops)</b>
12	Okra YVMV resistant trial AVT-I	To be presented in Crop Improvement
13	Brinjal (Round) IET	To be presented in Crop Improvement
14	Brinjal (Round) AVT-I	To be presented in Crop Improvement
15	Brinjal Round AVT-I	To be presented in Crop Improvement
16	Tomato (Determinate) IET	To be presented in Crop Improvement
17	Cherry Tomato (IET)	To be presented in Crop Improvement
18	Tomato (Indeterminate) AVT-I	To be presented in Crop Improvement
19	Tomato (Determinate) AVT-II	To be presented in Crop Improvement
20	Chilli Hybrid –IET	To be presented in Crop Improvement
21	Amaranth –IET	To be presented in Crop Improvement
22	Pumpkin AVT-II	To be presented in Crop Improvement



23	Bitter gourd Hybrid (AVT-I)	To be presented in Crop Improvement
24	Bitter gourd Hybrid (AVT-II)	To be presented in Crop Improvement
25	Bottle gourd IET	To be presented in Crop Improvement
26	Pumpkin IET	To be presented in Crop Improvement
27	Sponge gourd (IET)	To be presented in Crop Improvement
28	Watermelon Hybrid (IET)	To be presented in Crop Improvement
29	PET on Okra	To be presented in Crop Improvement
30	Germplasm maintenance of Okra	To be presented in Crop Improvement
31	Development of new hybrids on Okra	To be presented in Crop Improvement
32	Handling of segregating material of Okra	To be presented in Crop Improvement
33	PHT on chilly ( <i>Capsicum annuum</i> L.).	To be presented in Crop Improvement
<b>(Action : Experiment No. 12 to 33 concern PI, Veg. Sci., ACHF)</b>		
<b>FLA Department, ACHF, NAU, Navsari</b>		
34	Effect of different growing media and foliar application of Nitrogen on Spinach	<b>Approved with the following suggestions:</b> 1. Add observation on pungency, duration of crop and pest and diseases incidences 2. Take experiment in summer 3. Fertilizer dose consult with Dr. K.G. Patel 4. Add M <sub>5</sub> :sand ; M <sub>6</sub> :vermiculite + rice husk (2:2) <b>(Action : Associate Professor, FLA, ACHF)</b>
35	Effect of different growing media and foliar application of Nitrogen on fenugreek	<b>Approved with the following suggestions:</b> 1. Delete 1% drenching with 19:19:19 NPK 2. M <sub>5</sub> :vermiculite + rice husk (2:2) 3. Specify methodology with help Dr. K.G. Patel <b>(Action : Associate Professor, FLA, ACHF)</b>
36	Effect of different growing media on green garlic	<b>Approved with the following suggestions:</b> Combine Experiment No. 34 to 36 as a one experiment and analyzed separately <b>(Action : Associate Professor, FLA, ACHF)</b>
<b>Horticulture Polytechnic, Navsari</b>		
37	Effect of land configuration and nutrient management on growth and yield of brinjal ( <i>Solanum melongna</i> L.) Cv. Gujarat Navsari Brinjal -1	<b>Approved with the following suggestions:</b> 1. Correct cultivar GNRB-1 2. Mention bed size 3. Correct plot size, 4. Add economics <b>(Action: Principal, Horticulture Polytechnic, Navsari)</b>
<b>FLORICULTURE AND LANDSCAPE ARCHITECTURE</b>		
<b>Department of FLA, ACHF, NAU, Navsari</b>		
1	Collection and evaluation of local spider lily germplasm of the South Gujarat region	To be presented in Crop Improvement <b>(Action to be taken: Asstt. Prof, FLA, ACHF )</b>
2	Integrated Weed Management in African Marigold ( <i>Tegets erecta</i> L.) var. Pusa Narangi Gainda	<b>Approved with the following suggestions:</b> 1. Correct botanical name 2. Delete objective of economics 3. Mention season: rainy season 4. Discuss to Prof. H.N. Chattrola regarding plot size 5. Add name of Dr. L.K. Arvadia and delete names of Dr.S. L. Chawla, Dr. Sudha Patil and Dr. Dipal Bhatt 6. Mention paddy straw mulch @ 5 t/ha <b>(Action : Asstt. Res. Sci., FLA, ACHF )</b>
3	Effect of foliar application of nutrients on growth and flowering of Orchid ( <i>Dendrobium</i> ) var. Sonia-17 under NVPH	<b>Not approved</b> Redesign the experiment after Ph.D. experiment results of Mr. H.P. Shah, Asstt. Prof. (Floriculture) <b>(Action : Asstt. Res. Sci., FLA, ACHF )</b>

4	Hybridization in gladiolus	To be presented in Crop Improvement <b>(Action : Asstt. Prof. , FLA, ACHF )</b>
5	Genetic improvement through hybridization in Adenium	To be presented in Crop Improvement <b>(Action to be taken: Assoc. Prof., FLA, ACHF )</b>
6	Effect of different growing media on Haworthia pot plant	<b>Approved with the following suggestions:</b> <ol style="list-style-type: none"> <li>1. Number of plants per treatment:15</li> <li>2. Incremental vegetative observations should be taken</li> <li>3. Observations at 3 months interval up to 12 months</li> <li>4. Add white grit media in treatment M<sub>7</sub></li> </ol> <b>(Action : Assoc. Prof., FLA, ACHF )</b>
<b>NMCA</b>		
7	Effect of cycocel & saline irrigation water on marigold ( <i>Tagetes erecta</i> ) Cv. Pusa Narangi Gainda	<b>Take as a filler trial</b> <ol style="list-style-type: none"> <li>1. Take 12 inch diameter pot</li> <li>2. Mention about fertilizers and irrigation schedule</li> <li>3. Write best available water in S<sub>1</sub> treatment</li> <li>4. Add ESP in soil analysis</li> <li>5. Delete durational observation of vegetative characters at 30 DAT</li> <li>6. Mention 20 pots per treatment</li> </ol> <b>(Action : Prof. and Head, Horticulture, NMCA)</b>
8	Response of IBA and cutting methods on vegetative growth of kamini ( <i>Murraya exotica</i> ).	<b>Approved with the following suggestions:</b> <ol style="list-style-type: none"> <li>1. Write Factor 1 as Cutting type</li> <li>2. Number of cuttings per treatment:50</li> <li>3. Write 10 seconds in quick dip method</li> <li>4. Take experiment under poly tunnel</li> <li>5. Remove 3<sup>rd</sup> objective</li> </ol> <b>(Action : Prof. and Head, Horticulture, NMCA)</b>

<b>POST HARVEST TECHNOLOGY</b>		
<b>Department of PHT, ACHF, NAU, Navsari</b>		
1	Development and quality evaluation of jackfruit seed flour and soy flour fortified pasta	Approved as such <b>(Action : Prof. and Head, PHT, ACHF)</b>
2	Identification and trouble shooting of biotic stress occurs during canning of mango pulp	Approved as such <b>(Action: Prof. and Head, PHT, ACHF)</b>
3	Design and development of centrifugal vegetable dewatering machine	Approved as such <b>(Action : Prof. and Head, PHT, ACHF)</b>
<b>Horticulture Polytechnic, Navsari</b>		
4	Effect of post harvest treatment, packaging and storage on shelf life and quality of okra [ <i>Abelmoschus esculentus</i> (L.)] for commercial adoption.	<b>Not approved</b> <b>(Action: Principal, Horticulture Polytechnic, Navsari)</b>

**Technical Session: 3 Presentation of ongoing / Concluded Experiments:**

<b>Chairman</b>	Dr. B. N. Patel, Dean, ACHF, NAU, Navsari
<b>Co-Chairman</b>	Dr. B. R. Parmar, Prof. and Head (Fruit Science), ACHF, NAU, Navsari
<b>Rappatures</b>	Dr. M. M. Patel Assoc. Prof. ACHF and Dr. V. K. Parmar, Assoc. Prof. NMCA

In this session, six experiments were presented for modification and conclusion as per the following details

<b>SN</b>	<b>Title</b>	<b>Suggestions</b>
1	Study the status and knowledge level of mango growers and nursery man regarding mango malformation in Navsari district	Accepted to conclude <b>(Action : Head , Fruit Science, ACHF)</b>
2	Standardization of technology for preparation of candy from ripe papaya ( <i>Carica papaya</i> Linn.) fruits	Remove <i>Madhubindu</i> variety Change statistical design. <b>(Action: Head, PHT-ACHF)</b>
3	Feasibility of tomato cultivation through grafting during rainy season	Accepted modification in experiment no.1 as 30X90 cm, Also change net plot and gross plot accordingly. <b>(Action: Head, Vegetable Science, ACHF)</b>
4	Studies on suitability of different intercrops and their effect on growth of rejuvenated mango orchard.	Accepted to conclude <b>(Action : Principal, Horti. Polytech, Paria.</b>
5	Study of wadi yojana with revised model in the Dangs.	Accepted to conclude <b>Action: SMS, Horti. KVK, Waghai</b>
6	Studies for intercropping in cashew	Any change in intercrop should be approved by the PC of AICRP Cashew. <b>(Action: AICRP- Cashew, AES, Paria)</b>

**Plenary session:****Chairman: Dr. S. R. Chaudhary, Director of Research & PG Dean, NAU, Navsari****Co-chairman: Dr. B. N. Patel, Dean, ACHF, NAU, Navsari**

The Plenary session of 13<sup>th</sup> meeting of Horticulture Research Sub Committee was chaired by Dr. S. R. Chaudhary, Director of Research & Dean Post Graduate Studies, NAU, Navsari and Co-chaired by Dr. B. N. Patel on 4th March 2017 to discuss the outcomes of the meeting. During the plenary session, Dr. D.R. Bhanderi presented the proceedings. The 27 recommendations were presented during the technical session 1<sup>st</sup>, out of them 14 were approved with suggestions, 9 were deferred, 3 were approved earlier and 01 was concluded. It was suggested by hon'able Director of research, NAU to call explanation from all the PI of deferred recommendations. Dr. S. J. Patil, presented the details of Technical Session 2<sup>nd</sup>, where 64 new Technical programmes were presented, out of them 32 were approved with suggestions, 7 were rejected and 25 technical programme were transferred to Crop improvement Sub-committee for necessary approval. In the third session, 6 concluded experiments were discussed, out of that, three experiments were concluded while three were reformulated. Dr. S. R. Chaudhary, Director of Research, instructed that the role of investigators must be justified. They suggested that the experiments must be well planned and discussed properly at Department level, before submitting to the sub-committee to save the valuable time. Dr. Narendra Singh, Assoc. Prof. (Agril. Economics) must be consulted for calculation of Economics of the experiments. They also said that new technical programmes should be executed properly to bring out better recommendations in future. All records related to experiment must be maintained in a proper way and must be presented by the PI when ever required.

Lastly, Dr. D. K. Sharma, Convener of the Horticulture sub-committee, proposed vote of thanks.