

**Proceedings of the 15<sup>th</sup> Agresco meeting of Horticulture Sub- Committee,  
Navsari Agricultural University- Navsari**

(February 21-22-2019)

**Venue:** Swami Vivekananda Hall, ACHF, NAU, Navsari.

**Time:** 9.15 am onwards

**Inaugural Session:**

The meeting was commenced in the gracious presence of Hon'ble Vice Chancellor, NAU, Navsari **Dr. C. J. Dangaria**; Director of Research and Dean PG Studies, Dr. S. R. Chaudhary; Dean, ACHF, Dr. B. N. Patel; Principal, ASABI, Surat, Dr. R. M. Patel; Principal, ACF., Dr. P. K. Srivastava. All the dignitaries were welcomed with flowers by Dr. D. R. Bhandari, Convener of 15<sup>th</sup> Horticulture Sub-committee. Inaugural session was presided over by Dr. C. J. Dangaria; Hon'ble Vice Chancellor, NAU, Navsari. Dr. B. N. Patel, Dean, ACH., in his welcome addressed highlighted on Teaching, Research and Extension activities of last year including 5 training in the interest of farmers, nursery men and youth as well as Horticulture Officer & Horticulture Supervisor of Gujarat state and one national seminar on protected cultivation of vegetable crops. He also gave remarks on 26 Recommendations & 26 New Technical Programs of this year and congratulated to scientist for their efforts. The action taken report of 14<sup>th</sup> AGRESKO was presented by Dr. D. R. Bhandari and it was approved by the house. Dr. S. R. Chaudhary, Director of Research and Dean PG Studies, appreciated the efforts made by scientists for bringing recommendations and new technical programme for farmers as well as scientific community. He emphasized on quick response towards incorporating the suggestions made by the house before Joint AGRESKO meeting (19-3-2019). He extended his best wishes to entire group for fruitful outcomes.

**Dr. C. J. Dangaria**, Hon'ble Vice Chancellor, NAU, Navsari in his presidential address, congratulated 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. He said that young scientists should work honestly, creatively and learn new things in the favour of the farmers of this region. He also highlighted the need for multi disciplinary research work to provide technical solution for the problems faced by the farmers. He also gave remarks of ATR of 14<sup>th</sup> Agresco and all are instructed to prepare ATR seriously and sincerely and all the suggestions must be reflected in the respective Agresco reports, without fail. He also emphasized that once the technical programme is approved by the house then no one can change or modify the technical detail of experiment.

**15.1 Technical Session – I (Recommendation)**

**Date:** 21/2/2019

**Time:** 10.15 a.m.to 19.30 p.m.

**Date:** 22/2/2019

**Time:** 08.30 a.m. to 13.00 p.m.

**Chairman** : Dr. S. R. Chaudhary, DR, NAU, Navsari

**Co-chairman** : Dr. B. N. Patel, Dean, ACHF, NAU, Navsari

**Rapporteurs** : 1. Dr. S.N. Saravaiya, Assoc. Prof. & Head (Veg. Sci.) ACHF, NAU, NAVSARI  
2. Dr. Dev Raj, Assoc. Prof. & Head (PHT), ACHF, NAU, Navsari

Sr. No.	Title of recommendation	Action to be taken by	Suggestions/ remarks
<b>Fruit Science &amp; PSMA</b>			
15.1.1	Effect of time and growing condition on success of	Research Scientist. RHRS, NAU, Navsari	<b>Not Approved</b> with following suggestions <ul style="list-style-type: none"><li>Lacking in statistical analysis</li><li>Explanation must be given regarding data collection</li></ul>



	softwood grafting in mango		<ul style="list-style-type: none"> <li>Extend experiment for one more trial</li> </ul>
15.1.2	Effect of foliar spray of KNO <sub>3</sub> and plant growth regulators on flowering and fruiting behaviour of mango cv. Alphonso.	Research Scientist. RHRS, NAU, Navsari	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Incorporate year mean</li> <li>Transformation not required in Table 6 and 7</li> <li>Date from recommendation must be removed and give as "3<sup>rd</sup> week of October" and 3<sup>rd</sup> week of November.</li> <li>Remove name of RA/JRF/SRF as per the proceeding of the 14<sup>th</sup> Horticulture and 14<sup>th</sup> Joint AGRESCO of NAU.</li> <li>Recast the recommendation.</li> </ul>
15.1.3	Effect of environment on behaviors and structures of flowering, pollen and fruit set characters in mango.	Research Scientist. RHRS, NAU, Navsari	<p>Approved with following suggestions (Scientific)</p> <ul style="list-style-type: none"> <li>Conclusion should be short with respect to correlation of weather data.</li> <li>Insert figure in conclusion</li> <li>Write Kesar mango instead of Kesar variety of mango</li> <li>Add sunshine data.</li> <li>Insert SEM and CD in data</li> <li>Consult Dr Chhatrola for statistical analysis of data.</li> </ul>
15.1.4	Evaluation of nutrient management under coconut based cropping systems for different agro climatic regions.	Research Scientist. RHRS, NAU, Navsari	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>All the figures in the column must be verified</li> <li>In fig 1, the crops must be indicated with area with sketch.</li> <li>Committee should made with Dr BR Parmar, Dr Chhatrola and Dr Bhalerao , Dr. V. P. Usadadia and Dr KD Desai to recast the results.</li> <li>Remove name of Dr. S. J. Patil</li> </ul>
15.1.5	Performance of cocoa varieties/hybrids for their performance as intercrop in coconut gardens	Research Scientist. RHRS, NAU, Navsari	<p>Approved with following suggestions (Scientific)</p> <ul style="list-style-type: none"> <li>Correction in recommendation required for scientific community.</li> <li>Data should be compared with mono-crop</li> <li>Remove name of Dr. S. J. Patil</li> <li>Indication of Pruning in 3<sup>rd</sup> year</li> <li>Plot size should be included with diagram</li> </ul>
<b>FRS, Gandevi</b>			
15.1.6	Enhancing the inputs use efficiency in banana cv. Grand Naine	Associate Res. Sci., FRS, Gandevi	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Initial value in Table 6 must be mentioned</li> <li>Consult Dr. V. P. Usadadia for Ready Recknor Table</li> </ul>
<b>AES, Paria</b>			
15.1.7	Development of organic package of practice for mango	Research Scientist AES, Paria	<p><b>Not Approved</b> with following suggestions</p> <ul style="list-style-type: none"> <li>Table 4 is wrong and must be corrected.</li> <li>Data not satisfying by house and hence Concluded</li> </ul>
15.1.8	Root stock trial of mango	Research Scientist AES, Paria	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Correct yield data as per experiment</li> </ul>
15.1.9	High density	Research Scientist	Approved with following suggestions



	orcharding in different varieties of mango	AES, Paria	<ul style="list-style-type: none"> <li>Add No. of fruits per ha in recommendation</li> <li>Recast the recommendation</li> <li>New technical program must be framed for canopy management of the same four varieties.</li> </ul>
<b>ARS Tanchha</b>			
15.1.10	Effect of mulch on moisture conservation in old ber orchard under Bara track of Gujarat	ARS Tanchha/bharuch centre	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Interpretation must be Pooled Analysis basis</li> <li>Remove word “@ and word c.v” from recommendation</li> <li>Remove word “old” from recommendation</li> <li>Recast the recommendation</li> </ul>
15.1.11	Effect of foliar fertilization on old ber orchard	ARS Tanchha/bharuch centre	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Remove names of Agri. Officers from list of Investigators</li> <li>Recast the recommendation</li> <li>In Table 11 write unit of N</li> </ul>
<b>Vegetable Science</b>			
15.1.12	Release proposal of Brinjal NBL – 50 (Proposed name: GNRB-2)	Professor Vegetable Science, ACHF, NAU, Navsari	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>It should be presented in Crop Improvement Sub-committee to be held on 11/12-3-2019</li> </ul>
<b>KVK, Vyara</b>			
15.1.13	Effect of IBA and its combinations with NAA on propagation on Little gourd in plug trays.	Scientist, KVK, Vyara	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>In Table 2 Correct pooled value</li> <li>Write variable cost instead of common cost in Table 22</li> <li>Success rate calculations must be given and must be present in house tomorrow.</li> <li>Recast recommendation on the basis of success rate.</li> <li>Remove month</li> <li>Remove the name of Dr. S. N. Saravaiya and Pro. Kirti Bardhan as per the suggestion given by Dr. Y. N. Tandel and Dean, Dr. B. N. Patel.</li> </ul>
<b>Floriculture</b>			
15.1.14	Standardization of Grafting Technique in Adenium	Associate Professor FLA, ACHF, NAU, Navsari	<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Table 6 must be checked and corrected</li> <li>Keep only transformed data</li> <li>Sentence of the recommendation must be changed and must be same in both languages.</li> <li>Check CV and CD value in Table 5 and 6</li> </ul>
15.1.15	Standardization of soilless based growing media for different varieties of potted <i>Euphorbia milii</i>		<p>Approved with following suggestions</p> <ul style="list-style-type: none"> <li>Data pertaining to media analysis must be inserted in the text.</li> <li>Remove “farmers” word from recommendations</li> <li>Table 3 title must be checked</li> <li>Table 6 must be checked for title.</li> <li>Old Data must be checked by Dr. N. B. Patel</li> <li>As per the proceedings of plenary session the</li> </ul>



			committee was met on 26 <sup>th</sup> February, 2019 at 4 p.m. onwards in conference hall of ACHF and it was approved.
15.1.16	Testing of new genotypes of China aster		Approved with following suggestions <ul style="list-style-type: none"> <li>• AES-3 must be in Roman words like III</li> <li>• Prepare layout plan and show again in house</li> <li>• As per the proceedings of plenary session the committee was met on 26<sup>th</sup> February, 2019 at 4 p.m. onwards in conference hall of ACHF and it was approved.</li> <li>• It was represented by Dr. S. L. Chawla</li> </ul>
15.1.17	Standardization of packing techniques for flower strings of marigold		<b>Not Approved</b> with following suggestions <ul style="list-style-type: none"> <li>• Extend for one more year</li> <li>• As per the proceedings of plenary session the committee was met on 26<sup>th</sup> February, 2019 at 4 p.m. onwards in conference hall of ACHF and it was <b>not approved</b>.</li> </ul>
15.1.18	Standardization of postharvest treatment using boric acid and sodium benzoate for improving postharvest life of loose flowers of tuberose		Approved with following suggestions <ul style="list-style-type: none"> <li>• Check the SEm, CD and CV values in each table and correct it accordingly.</li> <li>• As per the proceedings of plenary session the committee was met on 26<sup>th</sup> February, 2019 at 4 p.m. onwards in conference hall of ACHF and it was approved.</li> <li>• It was represented by Dr. S. L. Chawla.</li> </ul>
15.1.19	Studies on use of food dyes for tinting in tuberose stems		Approved with following suggestions <ul style="list-style-type: none"> <li>• The presenter Dr. Dipal Bhatt has denied to present this recommendation before the house.</li> <li>• The presenter has to Submit the explanation to DR regarding not presenting this recommendation through HoD and Dean.</li> <li>• As per the proceedings of plenary session the committee was met on 26<sup>th</sup> February, 2019 at 4 p.m. onwards in conference hall of ACHF and it was approved.</li> <li>• Correct economics.</li> <li>• It was represented by PI Dr. S. L. Chawla.</li> </ul>
<b>PHT</b>			
15.1.20	Standardization of technology for removal of the bitter compound 'aloin' from the <i>Aloe vera</i> juice. (9.4.3.46)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Add interaction of P x M, year pooled</li> <li>• Mention sample size and No. of bottles per treatment</li> <li>• Economics should be added in the text of report</li> <li>• Change 50 units to 10 ppm in all tables</li> </ul>





15.1.21	Standardization of technology for preparation of <i>Aloe vera</i> juice (9.4.3.46)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Data of NEB and Table of Economics should be added in text of Report</li> <li>• Mention sample size and No. of bottles per treatment</li> <li>• Add interaction of P x M, year pooled and storage pool</li> <li>• Flow chart correction</li> <li>• Add year wise mean</li> </ul>
15.1.22	Standardization of formulation for processing of Watermelon [ <i>Citrullus lanatus</i> ] juice (11.4.2.57)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Table of Economics should be added in text of Report</li> <li>• Add interaction of P x M, year pooled and storage pool</li> <li>• Sample size should be mentioned</li> </ul>
15.1.23	Standardization of formulation for processing of Watermelon [ <i>Citrullus lanatus</i> ] nectar (11.4.2.57)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Table of Economics should be added in text of Report</li> <li>• Add interaction of P x M, year pooled and storage pool</li> </ul>
15.1.24	Standardization of process for the preparation of Watermelon [ <i>Citrullus lanatus</i> ] albedo candy (11.4.2.57)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Data of sugar and syrup should be verified</li> <li>• Table of Economics should be added in text of Report</li> <li>• Add interaction of P x M, year pooled and storage pool</li> <li>• Sample size should be mentioned</li> <li>• Recommendation language: It is recommended to the processors.....</li> </ul>
15.1.25	Development of UV light assisted method for preservation of mango noni nectar (9.4.3.47)	Associate Professor PHT, ACHF, NAU, Navsari	Approved with following suggestions <ul style="list-style-type: none"> <li>• Table of Economics should be added in text of Report</li> <li>• Add statistics for year wise mean and storage period wise</li> <li>• Sample size should be mentioned</li> <li>• Verify the data</li> </ul>
Department of Horticulture, College of Agriculture, Navsari Agricultural University, <b>BHARUCH</b>			
15.1.26	Preparation and standardized technique of guava ( <i>Psidium guajava</i> L.) and papaya ( <i>Carica papaya</i> L.) blended RTS.	Department of Horticulture, College of Agriculture, Navsari Agricultural University, <b>BHARUCH</b>	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>• Recast recommendation language.</li> </ul>

#### General Suggestions

- All the PI's of the experiment are instructed to take the care of their experiments seriously.
- Data of all experiments should be verified by HoD of respective departments trimonthly.
- For any changes in technical programme approval of Director of Research is must.

## 15.2 Technical Session – II (New Technical Programme)

Date: 22/2/2019

Time: 14.30 to 16.30

**Chairman** : Dr. S. R. Chaudhary, Director of Research and Dean PG Studies, NAU, Navsari

**Co-chairman** : Dr. B.R. Parmar, Prof. & Head, Dept. of Fruit. Science, ACHF, NAU, Navsari

**Rapporteurs** : 1. Dr. D.K. Sharma, Res. Sci. (Horti.), AES, Paria

2. Dr. Alka Singh, Assoc. Prof. & Head (Flori.), ACHF, NAU, Navsari

Sr. No.	Title of recommendation	Action to be taken by	Suggestions/ remarks
<b>Fruit Science &amp; PSMA, RHRS, NAU, Navsari</b>			
15.2.1	Effect of rootstocks on growth and yield of mango cv. Kesar	Research Scientist, RHRS, NAU, Navsari	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>Change objective- To evaluate root stock for inducing dwarfness in Kesar.</li> <li>Spacing should be 5 x 5m</li> <li>Block plantation with CRD design</li> </ul>
15.2.2	Study the effect of seasonal variations on flowering phenology of sapota cv. Kalipatti	Research Scientist, RHRS, NAU, Navsari	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>Same plants to be taken for study</li> <li>There should be 5 plants per treatment</li> <li>First observation to be deleted</li> </ul>
<b>AES, Paria</b>			
15.2.3	Evaluation of growth, yield and quality of promising half-sib selections from Alphonso.	Research Scientist, AES, Paria	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>Block plantation should be done with 20 plants (CRD analysis)</li> <li>Mention proper units in observation</li> <li>Flowering duration to be replaced by initiation of flowering (Days taken for 50% Flowering in plants)</li> <li>Fruit duration to be taken from pea stage to harvesting</li> </ul>
15.2.4	Selection of plus trees for regular bearing character in mango var. Langra.	Research Scientist, AES, Paria	<b>Approved with following suggestions</b> Add more location (including Navsari and Valsad)
15.2.5	Canopy Management in mango cv Kesar under high density planting	Research Scientist, AES, Paria	<b>Approved with following suggestions</b> Design to be kept as : Block plantation –CRD Treatments to be revised as: P1- 30cm, P2- 50 cm and P3 as 1 m pruning
15.2.6	Canopy Management in mango cv Totapuri under high density planting	Research Scientist, AES, Paria	<b>Approved with following suggestions</b> Design to be kept as : Block plantation –CRD Treatments to be revised as: P1- 30cm, P2- 50 cm and P3 as 1 m pruning
15.2.7	Canopy Management in mango cv Alphonso under high density planting	Research Scientist, AES, Paria	<b>Approved with following suggestions</b> Design to be kept as : Block plantation –CRD Treatments to be revised as: P1- 30cm, P2- 50 cm and P3 as 1 m pruning
<b>Vegetable Science</b>			
15.2.8	Development of parthenocarpic cucumber	Professor Vegetable Science, ACHF,	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>To be send to Crop improvement for</li> </ul>



	hybrid (s)	NAU, Navsari	information.
<b>AICRP on Vegetable Crops</b>			
15.2.9	Bottle gourd IET	Professor Vegetable Science, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>Add local check.</li> </ul>
15.2.10	Bottle gourd AVT-II	Professor Vegetable Science, ACHF, NAU, Navsari	<b>Approved</b>
15.2.11	Pumpkin AVT-II	Professor Vegetable Science, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Dr. NK Patel as co PI to be removed
15.2.12	Sponge gourd AVT-II	Professor Vegetable Science, ACHF, NAU, Navsari	<b>Approved</b>
15.2.13	Water melon Hybrid AVT-II	Professor Vegetable Science, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>Ms H. R. Rathod to be removed as Co-PI</li> </ul>
<b>Floriculture</b>			
15.2.14	Effect of different bio-stimulants on growth, quality and yield of Dendrobium orchid under NVPH.	Associate Professor FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> <ul style="list-style-type: none"> <li>1 and 2 objective to be merged and add yield</li> <li>In treatment to Add Novel and remove weekly treatments</li> <li>Keep T9 (GA<sub>3</sub>) as check</li> <li>Mention gross and net plot, No of plants should be 20 plants</li> <li>Observation (at six month interval)</li> </ul>
15.2.15	Response of rose to different levels of fertilizers in respect to growth and yield parameters.	Associate Professor FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Reframe experiment with levels of N and K with P as stable Treatment: N-100, 200, 300, K-100,200, 300 and P- 100 Experiment title: Standardization of N and K doses under Fertigation in rose under NVPH Reframe objective accordingly Take observation on EC, pH and nutrient level from soil initially and every year
15.2.16	Accessing compatibility of different scion to develop multi grafted adenum under soilless growing system	Associate Professor FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Keep the treatment based on caudex size instead of age Keep NAU varieties and genotypes only as scion
15.2.17	Evaluation of new crosses in Adenium for multipetalous forms	FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Remove parents from treatments (T <sub>6</sub> to T <sub>9</sub> ) Increase repetition as four
15.2.18	Evaluation of new crosses in Adenium for profuse flowering habit	FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Parents to be removed and keep DUS as check Increase repetition as four
15.2.19	Studies on phenophase	FLA, ACHF, NAU,	<b>Approved with following suggestions</b>

	based nutrient scheduling on flower yield and quality in China aster	Navsari	Add the objective
15.2.20	Collection and evaluation of fillers (asparagus)	Associate Professor	<b>Approved with following suggestions</b> Add the objective
15.2.21	Collection and evaluation of fillers (dracaena)	FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Add the objective
15.2.22	Collection and evaluation of fillers (gypsophila)	Associate Professor	<b>Approved with following suggestions</b> Add the objective
15.2.23	Collection and evaluation of fillers (ferns)	FLA, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> Add the objective
<b>PHT</b>			
15.2.24	To study the effect of UV light and preservative on quality of fresh-cut cauliflower ( <i>Brassica oleracea</i> var. botrytis L.).	Associate Professor PHT, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> • Title should be changed as "The effect of UV.....L.)
15.2.25	Studies on quality evaluation of processed Oyster mushroom ( <i>Pleurotus sp.</i> ) during storage	Associate Professor PHT, ACHF, NAU, Navsari	<b>Approved with following suggestions</b> • Mention sample size, specify tin and glass bottle size • Keep 16 to 18 bottles/tins per replication • Keep Two names only as PI and Co-PI and remove others
<b>Dept. of Soil Science and Agricultural Chemistry</b>			
15.2.26	Effect of spacing and organic manure on growth, yield and quality of banana cv. Grand Naine	Associate Professor Dept. of Soil Science and Agricultural Chemistry ASPEE College of Horticulture and Forestry Navsari Agricultural University, Navsari-396 450	<b>Approved with following suggestions</b> • Remove observation on beta carotene

#### General Suggestions

- Name of A.O., RA, S.R.F. if any should be removed as investigators.
- Revised new technical programs not submitted in the AGRESCO report should be resubmitted for recompilation.

### 15.3 Technical Session –III (Ongoing/Concluded Exp.)

Date: 22/2/2019

Time: 16.40 to 18.30

**Chairman** : Dr. B. R. Parmar, Professor, Dept. of fruit science, ACHF, NAU, Navsari

**Co-chairman** : Dr. S. N. Saravaiya, Professor, Dept. of vegetable Sci., ACHF, NAU, Navsari

**Rapporteurs** : 1. Dr. N.B. Patel, Assoc. Prof. (Veg. Sci.), ACHF, NAU, Navsari  
2. Dr. V. K. Parmar, Assoc. Prof. (Hort.), NMCA, NAU, Navsari

Sr. No.	Title of experiment	Action to be taken by	Suggestions/ remarks
<b>Fruit Science &amp; PSMA</b>			
15.3.21	Evaluation of	Research Scientist. RHRS,	• As per ATR variety of Papaya



	different biofertilizers with graded chemical fertilizers for nutrient management in papaya var. Red Lady	ACHF, NAU Navsari	Madhubindu was replace with Red Lady 786
15.3.23	Effect of seed soaking and time of sowing on germination and seedling vigour on sapota	Research Scientist. RHRS, ACHF, NAU Navsari	<ul style="list-style-type: none"> <li>• Modify the objectives</li> <li>• Seed soaking treatments 24 hrs for treatment no. 1 to 4 instead of 12 hrs.</li> </ul>
15.3	Filler trial : Root feeding in mango	Research Scientist. RHRS, ACHF, NAU Navsari	<ul style="list-style-type: none"> <li>• Experiment dropped due to Paclabutazole was not absorption by mango roots</li> </ul>
15.3.64	Evaluation of Bael varieties under South Gujarat agro climatic conditions	Research Scientist, AES, NAU, Paria	<ul style="list-style-type: none"> <li>• Experiment dropped due to failure of fruit setting and fruit which sets were rotten.</li> </ul>
15.3	Nutrition survey of mango.	Research Scientist, AES, NAU, Paria	<ul style="list-style-type: none"> <li>• Experiment concluded in AICRP trial so it is concluded.</li> </ul>
15.3.90	Effect of foliar application of Novel organic liquid fertilizer and micronutrients on yield and quality of mango ( <i>Mangifera indica</i> L.) cv. Kesar	Department of horticulture College of agriculture Navsari agricultural university BHARUCH	<ul style="list-style-type: none"> <li>• Year of Commencement : 2018</li> <li>• Continue for two year</li> </ul>
15.3.91	Rooting response of pomegranate ( <i>Punica granatum</i> L.) cv. Bhagwa to different rooting media and plant growth regulators.	Department of horticulture College of agriculture Navsari agricultural university <b>BHARUCH</b>	<p>Year of commencement was 2014. Initiate experiments in 2019</p> <p><b>Factor -1 Growth regulator</b> Modify treatments as</p> <ol style="list-style-type: none"> <li>1. IBA -1000 ppm</li> <li>2. IBA- 1500 ppm</li> <li>3. IBA- 2000 ppm</li> <li>4. IBA -1000 ppm + NAA-100 ppm</li> <li>5. IBA -1500 ppm + NAA-100 ppm</li> <li>6. IBA -2000 ppm + NAA-100 ppm</li> </ol> <p><b>Factor-2 Media</b></p> <ol style="list-style-type: none"> <li>1. Cocopeat + Vermicompost (1:1)</li> <li>2. Cocopeat+FYM (1:1)</li> </ol>
15.3.91	Effect of organics and mineral sources on yield and quality of sapota [ <i>Manilkara achras</i> (Mill.) Fosberg] cv. Kalipatti.	Department of horticulture College of agriculture Navsari agricultural university <b>BHARUCH</b>	<ul style="list-style-type: none"> <li>• Experiment concluded due to uprooting of Sapota orchard</li> <li>• Lack of experimental land</li> </ul>
<b>Vegetable Science</b>			

15.3.99	Different media used for storage of spine gourd tubers	Professor Vegetable Science, ACHF, NAU, Navsari.	<ul style="list-style-type: none"><li>Observation modify: No. of tuber decay, no. of tuber germinated, days to germination, survival percentage, decay percentage, tuber length, tuber circumferences and weight of tuber should be taken once only after storage prior to planting in main field.</li></ul>
15.3.102	Response of Greater Yam ( <i>Dioscorea alata</i> L.) to Different Growing Conditions		<ul style="list-style-type: none"><li>Experiment concluded due to poor tuber yield due to heavy infestation of anthracnose diseases.</li></ul>
15.3.104	Response of okra to foliar application of Novel Organic Liquid Fertilizer and Micronutrients		<ul style="list-style-type: none"><li>No. of branches/plant and yield per net plot as well as ancillary observations missing in report and YVM and gall like symptoms should be included in the revised AGRESCO report</li></ul>
15.3.150	Response of Tannia [ <i>Xanthosoma sagittifolium</i> (L)] to different spacing and fertilizer doses.		<ul style="list-style-type: none"><li>Treatments modify as<ol style="list-style-type: none"><li>FYM 20- t/ha + 80:60:80 NPK kg/ha</li><li>FYM 20- t/ha +160:120:160 NPK kg/ha</li><li>FYM 20- t/ha + 240:180:240 NPK kg/ha</li></ol></li></ul>
15.3.151	Filler trial - Parthenocarpic fruits development through various PGR's in musk melons under protected cultivations.		<ul style="list-style-type: none"><li>Modify treatments as</li><li>Deleted treatments CPPU 2,4,6,8,10,12 ppm - Modify as CPPU- 1,2 ppm</li><li>Deleted treatments 4-CPA 2.5,5,7.5,10,12.5,15 ppm - Modify as 4-CPA- 1,2 ppm</li></ul>
<b>Horticulture Polytechnic, ACHF,NAU, Navsari</b>			
15.3.155	Effect of land configuration and nutrient management on growth and yield of brinjal cv. Gujarat Navsari Round Brinjal -1	Associate Professor, Polytechnic in Horticulture, ACHF,NAU, Navsari	<ul style="list-style-type: none"><li>Year of commencement: 2018-19 i.e. consider as first year of experiment.</li></ul>
<b>KVK, Vyara</b>			
15.3.158	Effect of IBA and its combinations with NAA on propagation on Pointed gourd in plug tray	Scientist, KVK, Vyara	<ul style="list-style-type: none"><li>Observation should be taken upto 60 DAP instead of 75 DAP</li></ul>
<b>FLA, ACHF, NAU, Navsari</b>			
15.3.160	Integrated nutrient management in rose ( <i>Rosa chinensis</i> L.)	Associate Professor FLA, ACHF, NAU, Navsari	<ul style="list-style-type: none"><li>Missing data should be included in report before joint AGRESCO</li></ul>
15.3.164	Integrated weed management in	Associate Professor FLA, ACHF, NAU, Navsari	<ul style="list-style-type: none"><li>Year of commencement : 2019-20 i.e. consider as first year of experiment.</li></ul>



	African marigold ( <i>Tagetes erecta</i> L.) var. Pusa Narangi Gaiinda		<ul style="list-style-type: none"> <li>5 cm layer of paddy straw that can be calculated on weight basis i.e. t/ha.</li> <li>Remove Co-PI- Dr L.K. Arvadia</li> </ul>
15.3.167	Effect of foliar application of nutrients on growth and flowering of Orchid ( <i>Dendrobium</i> ) under NVPH	Associate Professor FLA, ACHF, NAU, Navsari	<ul style="list-style-type: none"> <li>Year of commencement : 2019-20 i.e. consider as first year of experiment.</li> </ul>
15.3.168	Effect of foliar application of micronutrients to increase the flowering of Spider lily ( <i>Hymenocallis littoralis</i> ) during August to November months	Associate Professor FLA, ACHF, NAU, Navsari	<ul style="list-style-type: none"> <li>Year of commencement : 2019-20 i.e. consider as first year of experiment.</li> </ul>
<b>PHT</b>			
15.3.175	Standardization of technology for minimal processing of fresh cut cauliflower ( <i>Brassica oleracea</i> var. botrytis L.). (12.4.3.57)	Associate Professor PHT, ACHF, NAU, Navsari	<ul style="list-style-type: none"> <li>Modify the treatment In Second part of Exp. Citric acid: C<sub>2</sub>- 0.05%, C<sub>3</sub>- 1% KMS: K<sub>2</sub>- 0.05%, K<sub>3</sub>- 1%</li> </ul>
<b>Dept. of Soil Science and Agricultural Chemistry</b>			
15.3.188	Organic farming in Capsicum ( <i>Capsicum annum</i> L.) under protected condition	Dept. of Soil Science and Agricultural Chemistry ,ACHF, NAU, Navsari	<ul style="list-style-type: none"> <li>Experiment dropped due to Pest and diseases could not be controle.</li> </ul>

#### General Suggestions by Director of Research

- Submit the revised complete report of 15<sup>th</sup> AGRESO of Horticulture.

#### Plenary Session:

**Chairman** : Dr. B. N. Patel, Dean, ACHF, NAU, Navsari

**Co-chairman** : Dr. D.R. Bhanderi, Associate Professor (Horticulture), ACHF, NAU, Navsari

**Rapporteurs** : 1. Dr. R.V. Tank, Associate Professor, Dept. of Fruit Science, ACHF, NAU, Navsari  
2. Dr. Sanjeev Kumar, Assistant Professor (Veg. Sci.), ACHF, NAU, Navsari

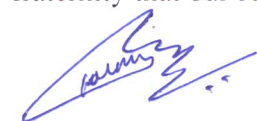
The plenary session of 02 days 15<sup>th</sup> AGRESO meeting of Horticulture Sub-Committee was organized in the Swami Vivekananda Hall, ASPEE College of Horticulture & Forestry, Navsari Agricultural University, Navsari, which was chaired by Dr. B.N. Patel, Principal & Dean, ASPEE College of Horticulture & Forestry, NAU, Navsari and co-chaired by Dr. D.R. Bhanderi, Associate Professor (Horticulture) & Convener, Horticulture Sub-Committee. Rapporteurs for the session were Dr. R.V. Tank and Dr. Sanjeev Kumar.

First of all, Dr. Alka Singh, Associate Processor & Head, Floriculture and Landscape Architecture welcomed chairman and co-chairman of the session as well as all the members of Horticulture Sub-Committee to the session. It was followed by presentation of report by the rapporteur, Dr. S.N. Saravaiya, Professor & HoD, Department of Vegetable Science for the Technical Session 1 on 'Recommendations' presented by different research centres. He informed the house that out of 26 recommendations presented in the session, 17 were approved for farming community, 2 for scientific community, 2 were conditionally approved and 5 were not approved, and also briefed about suggestions made by the house for improvement and shortfalls in disapproved recommendations. The chairman took the note of recommendations which were not approved by the house and after reviewing these recommendations again, he recited to arrange a special review meeting within 2-3 days for re-assessment of 3 recommendations out of 5 in the presence of Principal & Dean, Convener, All Heads of core departments of ACHF and all faculty members of Floriculture and Landscape Architecture for final verdict.

Thereafter, Dr. Alka Singh presented the report for Technical Session 2 on 'New Technical Programmes' discussed during the session and apprised house about the approval of 26 out of 26 technical programmes with some suggestions. She also narrated briefly regarding suggestions made by the house for improvement.

Subsequently, Dr. N.B. Patel made a presentation on various modifications suggested by the house on 21 different on-going and filler experiments for upgrading the execution of these experiments.

Dr. B.N. Patel, Chairman of the session made final assessment of recommendations, new technical programmes and ongoing experiments and congratulated all the members of Horticulture Sub-committee for their valuable outcome. At the end of the session, he also suggested the scientific fraternity that our research endeavour must be oriented towards the prosperity of farmers.



**(D.R. Bhanderi)**

Associate Professor (Horticulture) & Convener  
ASPEE College of Horticulture & Forestry  
NAU, Navsari