

Proceedings of 11th Meeting of Horticulture and Agro-Forestry Sub-Committee Research Council of Navsari Agricultural University held at Navsari During March 10-11, 2015

.....

Inaugural Session

The 11th meeting of Horticulture and Agro-forestry Sub-committee of Research Council of Navsari Agricultural University was held at Navsari during 10-11th March, 2015 at Swami Vivekanand Hall of ASPEE College of Horticulture and Forestry.

At the outset, the convener of this committee Dr. B. R. Parmar, Professor and Head, Dept. of Horticulture, NMCA, NAU, Navsari, welcomed Dr. A.N. Sabalpara, Director of Research, Dr. N. L. Patel, Principal and Dean A.C.H.F., Dr. D. B. Jadeja, Principal, College of Forestry, Dr. B. N. Patel, ADR and all committee members to the venue. The 11th subcommittee meeting was convened under the chairmanship of Dr. A. N. Sabalpara, Director of Research, NAU, Navsari.

In his address, Dr. N. L. Patel emphasized the need to diversify our horticultural basket. He urged the scientists to work on Hi Tech horticulture like canopy management in fruit crops, protected cultivation in flower crops and vertical farming in vegetable crops. He extolled the scientists to focus on integrated nutrient management and value addition in horticultural crops. He advocated a multi pronged multi disciplinary approach when tackling age old problems in horticulture.

Dr. B. R. Parmar, Convener, Horticulture and Agroforestry Sub-committee of Research Council tabled the Action Taken Report before the House. Members of the house made some suggestions to the respective scientists.

The Chairman, Dr. A. N. Sabalpara, Director of Research, NAU focused on environment friendly pest and disease management technologies, bio-control, waste management of horticulture produce and use of biofertilizers in horticultural crops. He opined that varietal development should take precedence in horticultural crops. He spoke about the need to develop low cost technologies which can add to the profitability of farmers without adversely affecting the environment. He encouraged the house to come up with new technical programs taking into account the challenges faced by our growers.

Dr. D. B. Jadeja spoke about climate change and the role of horticulture based agroforestry systems in mitigating the effects of climate change. He advocated crop diversification, multi storeyed cropping systems and precision farming in horticultural and agroforestry tree species.

The session concluded with a vote of thanks by Dr. T. R. Ahalwat, Associate Professor, Dept. of Fruit Science, ACHF, NAU, Navsari.

**Proceeding of 11th AGRESO of Horticulture and Agro-Forestry Sub Committee
Technical Session I-**

Recommendations

Chairman: Dr. N. L. Patel, Dean, ACHF, NAU, Navsari

Co-chairman: Dr. D. B. Jadeja, Principal, Forestry College

Rapporteurs: Dr. D. R. Bhanderi, Dr. T. R. Ahlawat and Dr. R. P. Gunaga

Sr. No.	Title of the Experiments	Suggestions	Action to be taken
FRUIT SCIENCE			
1	Effect of post shooting foliar spray of fertilizers on banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain.	<ol style="list-style-type: none"> Recast the economics, add labour charges for opening of sleeves during second spray on the bunch. Use <i>bunch spray</i> instead of the word <i>foliar spray</i> In Table 1, write <i>shooting to harvesting</i> instead of <i>flowering to harvesting</i> Use word <i>complete</i> instead of <i>completely</i> in recommendation 	Research Scientist, RHRS, ACHF, NAU
2	Effect of different organics on growth, yield and quality of mango cv. Kesar under high density plantation.	<ol style="list-style-type: none"> Bring out the recommendation based on net realization instead of BCR. (T7 instead of T4) Check the spelling mistakes in the recommendation In Gujarati version, add the term <i>heavy rainfall</i> Record microbial count in different organics Conduct the soil analysis and analysis of different organic matter with the help of Dr. Dhiraji Patel. 	Research Scientist, RHRS, ACHF, NAU
3	Effect of heading back and training on growth, flowering, yield and quality in old orchards of mango cv. Kesar.	<ol style="list-style-type: none"> Rewrite the recommendation in a single continuous sentence In conclusion, mention <i>4 to 5m</i> instead of <i>5m</i> Add the treatments given after head back Use the word <i>head back</i> instead of heading back in the title Add pest and disease information Add the name of scientist, Sh. N.M. Patel as Co-Investigator 	Research Scientist, RHRS, ACHF, NAU
VEGETABLE SCIENCE			
1	Integrated nutrient management in little gourd	<ol style="list-style-type: none"> Use the name of GNLG-1 instead of local cultivar Provide time of pruning in the recommendation Confirm / check the calculation of variable cost for 50% RDF and 50% biocompost. Mention the cost of castor cake. 	Head, Vegetable Science, ACHF, NAU

		<ol style="list-style-type: none"> 4. Check the CV (%) values in the observation - yield per plot and yield per ha 5. Modify the title as Integrated Nutrient Management of Little gourd 6. Check the table 8 (There are anomalies) 	
2	Effect of different organics on growth, yield and fertility of soil in brinjal cv. Surti Ravaiya.	<ol style="list-style-type: none"> 1. Remove the data of year 2010-11 in all the tables 2. Provide information on schedule of biopesticides used in the crop period 	Head, Vegetable Science, ACHF, NAU
3	Response of seed sowing on germination, growth, flowering and yield of Spine gourd (<i>Momordica dioica</i>).	<ol style="list-style-type: none"> 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 and 	Head, Vegetable Science, ACHF, NAU
4	Performance of greater yam (<i>Dioscorea alata</i> L.) under different staking systems .	<ol style="list-style-type: none"> 1. Delete decimal point in the table 4 2. Check the variable cost in T5 of table 4 3. Provide fixed cost and variable cost in the appendix of PPT presentation 	Head, Vegetable Science, ACHF, NAU
FLORICULTURE AND LANDSCAPE ARCHITECTURE			
1	Study of year round flower production in French marigold and its growth and development in relation to weather.	<ol style="list-style-type: none"> 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 	Head, Dept. of Floriculture ACHF, NAU
2	Study of year round flower production in African marigold and its growth and development in relation to weather.	<ol style="list-style-type: none"> 1. Recast the recommendation based on the net realization 2. Remove figures/values from recommendation (eg. BC ratio) 3. Remove the table on seed yield. 4. Remove the August month from the recommendation (only keep July) 5. Consider irrigation in variable cost while calculating economics 	Head, Dept. of Floriculture ACHF, NAU
POST HARVEST TECHNOLOGY			
1	Preparation of Ready to Serve (RTS) beverage from banana pseudostem sap.	<ol style="list-style-type: none"> 1. Recast all the tables with raw data, since the value of CV% was high 2. Resubmission of recommendation as per suggestions made by the house (regarding CV% and Fat content) 	Head, Dept. of PHT, ACHF, NAU.
NATURAL RESOURCE MANAGEMENT			
1	Effect of banana	1. In recommendation, it should be 2000 l/ha of	Head, Dept.

	pseudostem based sap in combination with organic manures on yield and quality of garlic.	<p>banana sap instead of 1000l/ha</p> <ol style="list-style-type: none"> Add labour cost for application of Banana sap wherever applied Write the unit of bulb diameter as mm instead of cm In table 6, check the Allicin content between 180 days and 270 days In Table 10, check the data of total K₂O uptake and S uptake Check the data in all tables 	of NRM, ACHF, NAU.
PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY			
1	Characterization of pectate lyase in banana	Accepted for scientific community	Head, Dept. of PMBB, ACHF, NAU.
2	Effect of nano micronutrient (Zn and Cu) on physiology and stevioside production in Stevia.	Accepted for scientific community	Head, Dept. of PMBB, ACHF, NAU.
HORTICULTURE POLYTECHNIC			
1	Integrated nutrient management in okra cv. GO-2 under South Gujarat conditions	<ol style="list-style-type: none"> Check the data in the following tables (Table 6-fruit weight per plant and yield per ha; table 7 pool data should be corrected Prepare two way table in fruit yield Calculate economics based on two way table Use BC ratio instead CB ratio Recast the tables and consult Dr. B.N. Patel before submitting the report to the Joint AGRESCO 	Principal, (Hort. Polytechnic) ACHF, NAU.
HORTICULTURAL ENTOMOLOGY			
1	Residues of some insecticides in/on Indian bean pod.	1. Remove the word “three” from the recommendation	Head, Hort. Entomology. ACHF, NAU.
2	Status of residues of insecticides in/on Indian bean after <i>Ubadia</i> preparation	1. Mention the exact value of BDL in table 3	Head, Hort. Entomology. ACHF, NAU.
3	Bioefficacy of some insecticides and neem products against <i>Helicoverpa armigera</i> on tomato.	<ol style="list-style-type: none"> Recast the recommendation by including the sentence “any one of the following insecticides” in English as well as Gujarati version of the recommendation. Add the exact value of MRL in table 14 	Head, Hort. Entomology. ACHF, NAU.
HORTICULTURAL PATHOLOGY			
1	Screening for resistance to Fusarium wilt in tomato varieties	Accepted for scientific community	Head, Hort. Pathology. ACHF,

			NAU.
2	Detection of fungal pathogens from forest tree seeds <i>in vit</i>	Accepted for scientific community	Head, Hort. Pathology. ACHF, NAU.
AGROFORESTRY			
1	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 1/3 rd of pruning of side branches 3. Add age of the tree in the recommendation 4. Use the sentence “pruning of side branches upto 1/3 rd height of the tree from the ground level” in the recommendation	Professor (Agro Forestry), ACHF, NAU, Navsari
2	Rapid multiplication of <i>Bambusa vulgaris</i> through <i>in vitro</i> regeneration techniques from juvenile explants.	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 culture bamboo	Professor (Agro Forestry), ACHF, NAU, Navsari
3	Rapid multiplication of <i>Dendrocalamus strictus</i> through <i>in vitro</i> regeneration techniques from juvenile explants.	1. Provide raw data regarding number of plants used while calculation of plant survival %	Professor (Agro Forestry), ACHF, NAU, Navsari
4	Collection and evaluation of <i>Mucuna</i> germplasm from South Gujarat for L-DOPA and protein content.	Accepted for scientific community	Professor (Agro Forestry), ACHF, NAU, Navsari
SOIL AND WATER MANAGEMENT RESEARCH UNIT			
1	Standardization of technology for processing of banana central core jam.	Apply code for commercial JAM instead of Kissan Jam	Head, SWMRU, NAU
2	Optimization of level of temperature and KMS in processing of banana puree from ripe banana at pilot scale.	Accepted	Head, SWMRU, NAU
3	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	Head, SWMRU, NAU

KVK, SURAT			
1	Standardization of colour extraction technique from <i>Butea monosperma</i> flowers for preparing herbal gulal.	Accepted	KVK, Surat
FRS, GANDEVI			
1	Nutrient requirement under high density planting in banana cv. Grand Naine.	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 T10) 3. Check data of soil sample analysis with help of Dr. D.P. Patel	Assoc. Res. Sc., FRS, Gandevi)
2	Fertigation studies in banana cv. Grand Naine.	1. Recast the economics table 2. Make recommendation based on Net realization instead of BC ratio (it is suggested to recommend T1 treatment instead of T2) 3. Provide schedule of fertilizer application in tabular form in the recommendation	Assoc. Res. Sc., FRS, Gandevi)
3	Chemical manipulation for higher yield and quality in banana cv. Grand Naine.	1. Talley common cost used in the economic calculation following experiment 2 (recommendation) of Gandevi 2. Provide net realization in two-way table (based on interaction of M x S)	Assoc. Res. Sc., FRS, Gandevi)
AES, PARIA			
1	Varietal Trial of Mango	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	Res. Sc., AES, Paria
KVK, WAGHAI			
1	Study of genetic variability in tamarind from South Gujarat.	1. Recast the recommendation by adding some other clones based on pulp recovery > 45 % (GT1, GT2, GT5, GT10, GT11 and GT12) 2. Take multi-location trail (MLT) at Paria and Waghai	Program Co-ordinator, KVK, Waghai)

Technical Session II

New Technical Programme

Date: 11-3-15

Chairman : Dr. B N Patel, ADR, NAU, Navsari

Rapporteurs: Dr. Alka Singh, Dr. S N Sarvaiya, Dr. M Jagatram

Sr.No.	Discipline	Total	Approved	Not Approved
1.	Fruit Science	37	28	9
2.	Vegetable Science	15	14	1
3.	Floriculture	5	5	-
4.	Post Harvest Techonology	3	3	-
5.	NRM	1	1	-
6.	Biotechnology	3	3	-
7.	Horticulture Pathology	1	1	-
8.	Forestry	5	5	-
	Total	70	60	10

Sr. No	Experiment-title	Suggestions	Action to be taken
FRUIT SCIENCE			
Strengthening of Research and Development Activities of Horticulture Crops (B.H.12095)			
1.	Effect of application post harvest chemicals on storage stability and quality of mango and sapota under ambient and cold storage conditions	Not approved Recast under the guidance of Dr Devraj, Yatin Tandel and Vivek Mehta -Take filler trial and frame it	Research Scientist(Hort), RHRS,ACHF, Navsari.
2.	Effect of edible Chitosan coating and Putrescine on quality and shelf life of sliced mango and sapota.	Not approved Recast under the guidance of Dr Devraj, Yatin Tandel and Vivek Mehta-Take filler trial and frame it	”
Strengthening Productivity of Mango and Sapota Phase-III (B.H.12028)			
3.	Softwood grafting in mango cv. Kesar and sapota cv. Kalipatti	Recast the title as per the discussion. Add treatment of condition -open and controlled Add age of rootstock Add objective on weather condition and correlation	Research Scientist(Hort), RHRS,ACHF, Navsari.
4.	Inarch grafting in mango cv. Kesar	Recast the title as per the discussion Add observations on number of leaves instead of increment, duration of detachment of graft and add economics	”
5.	Evaluation of bio agent, fungicides and physical method on germination and survival of mango (<i>Mangifera indica</i> L.) stone.	-Take experiment in bag and on raised bed both. Treatment of drenching should be given after one month of germination -add observation on disease and pest incidence	”

		-mention period of germination in days -add economics	
6.	Effect of bio fertilizers on soil health, fruit yield and quality of Sapota cv. Kalipatti	Correct title as per discussion in the house -Change the year of commencement to 2015-16 Add observation on month wise yield data	”
7.	Screening of salt tolerant rootstock for mango from South Gujarat region	- Recast the title as “Screening of rootstock for salt tolerance in mango from South Gujarat region” Add the name of Dr. D.P. Patel 20 stones /treatment should be taken -measure salinity of the place where the seedlings are collected	”
8.	Assessment of genetic diversity in mango collections (<i>Mangifera indica</i> L.)	Not presented, remove from text	“
8.	Assessment of genetic diversity through D ² analysis and molecular markers in mango (<i>Mangifera indica</i> L.)	Accepted as such Add in text for Combined Joint Agresco	”
9.	Hybridization in mango using L X T analysis	Accepted, add Totapuri as a line	”
10.	Surveillance of important insects-pests of Mango	Not accepted in this sub- committee as not presented in PPSC Sr.No. 10-15	”
11.	Management of insect pests in Mango		
12.	Investigation on pest succession of important insects-pests of sapota		
13.	Screening of sapota varieties against important insect-pests		
14.	Estimation of yield losses caused by important insect-pests of sapota		
15.	Management of bud borers of sapota		
16.	Survey and selection of elite clones of mango	Recast title and add seedling selection instead elite clone and restrict it to South Gujarat Year of completion- mention long term experiment Add observation on flowering characters, bearing habit, late, early or regular bearing etc	”
17.	Study the management efficiency of mango and sapota growers in Navsari	Accepted as such	”

	district		
18.	Standardization of foam mat drying process for preparation of mango powder.	Mention name of the variety kesar, add periodic analysis upto 6 months, Mention foam thickness 4 mm, Take the observation on carotene content, microbial content, economics, ascorbic acid, Flow chart to be given	„
19.	Standardization of suitable formulation for preparation of instant mango milk shake powder.	Accepted	
20.	Standardization of protocol for the extension of shelf life of fresh sapota fruit.	Mention marketable fruit and time of pre-cooling 8 hrs in study Change the step of transportation after storage as per discussion, Add name of J.M. Patel as co- investigator	
21.	Effect of post flowering sprays on fruit retention and yield of mango cv. Kesar	In title add-quality In T2 and T3 Nauroji organic liquid fertilizer be added	„
22.	Effect of foliar spray of KNO ₃ and plant growth regulators on flowering and fruiting behavior of mango cv. Alphonso	Accepted as such	
23.	Study the status and knowledge level of mango growers regarding mango malformation in Navsari district	Add Year of commencement	
FRS, Gandevi			
24.	Precision farming in banana cv. Grand Naine	Include methodology in text	Associate Research Scientist, FRS, Gandevi
25.	Effect of biofertilizers, growth regulators and nutrients on fruit growth, yield and quality of sapota cv. Kalipati	Accepted	
FRS, Paria			
26.	Effect of micronutrients on yield and quality of mango	In treatment mention the dose of mango special IIHR and in T8 add RDF. Add observation on fruit retention and economics,	Research Scientist, FRS, Paria
27.	Testing of exotic varieties of mango	In treatment take 2 plants per treatment, instead of 10 Add observation on incidence of insect pest and time for initiation of flowering	
28.	Assessing the effect of	Recast the experiment as per AICRP	„

	climatic aberrations on mango flowering and yield		
29.	Selection from seedling progenies of Chironji (<i>Buchanania lanzan</i> Sperg.)	Recast the experiment and title as per discussion-selection and collection of germplasm of Chironji. 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.	”
30.	Management of mango malformation at farmer’s field	Accepted	
COA, Bharuch			
31.	Induction of flowering and fruiting through foliar application of chemicals in Kesar mango orchard	Recast title as Effect of chemicals on fruiting behavior, yield and quality of mango cv. Kesar. Remove FBD word and use Flower Bud Development, add the name of PG student in investigator	Principal, COA, Bharuch
32.	Effect of foliar application of novel organic liquid fertilizer and micronutrients on yield and quality of Mango cv. Kesar	Canopy should be mentioned, add leaf tissue analysis in observation	
33.	Effect of foliar application of different chemicals on yield and quality of Sapota cv. Kalipatti	Not approved by the house	
34.	Effect of moisture conservation techniques on old ber orchard .	Recast the title as per discussion in the house as “Effect of mulch on moisture conservation in old ber orchard.” In observation: Moisture percent should be taken from uniform distance for all treatments Plot of No mulch should be kept away.	Principal, COA, Bharuch
35.	Effect of foliar fertilization on old ber orchard under Bara track of Gujrat	Recast title as per the discussion Remove the objective number 3, add 20 ppm NAA treatment	Principal, COA, Bharuch
36.	Effect of moisture conservation techniques on old ber orchard Bara track of Gujrat.	Recast the title as per discussion in the house as “Effect of mulch on moisture conservation in old ber orchard. Bara track of Gujrat.” In observation: Moisture percent should be taken from uniform distance for all treatments Plot of No mulch should be kept away	Asst.Res. Sci. Tanchha
37.	Effect of foliar fertilization on old ber orchard under Bara track of Gujrat	Recast title as per the discussion Remove the objective number 3, add 20 ppm NAA treatment	Asst.Res. Sci. Tanchha

VEGETABLE SCIENCE			
1.	Integrated Nutrient Management in Cabbage (<i>Brassica oleracea</i> L.var Capitata)	Recast the title as per treatments Change the treatments for Standardization of dose	Research Scientist (Vegetable), RHRS, Navsari
Research In Vegetable Crops Under Protected Condition (B.H. 12017)			
2.	Feasibility of vegetative propagation in parthenocarpic Cucumber under NVPH	Accepted	”
3.	Evaluation of parthenocarpic cultivars of Cucumber under protected conditions	Add observation on pest and disease incidence and economics	”
4.	Evaluation of Tomato cultivars under NVPH	Select 8-10 best varieties on the basis of filer trial. Add observation on quality parameters, pest and disease incidence and economics	”
Development Of Hybrids In Vegetable Especially In Okra, Brinjal, Tomato And Capsicum (B. H. 12021)			
5.	PET in CHILLI	Add observation on Pungency (Capsacin content)	”
Vegetable Improvement Project Under AICRP (VC) (B. H. 2058)			
6.	Tomato (Determinate) IET	Accepted	”
7.	Tomato (Determinate) AVT-I	Accepted	
8.	Tomato (Determinate) AVT-II	Accepted	
9.	Tomato (Indeterminate) AVT-II	Accepted	
10.	Chillies AVT-I	Accepted	
11.	Chillies AVT-II	Accepted	
12.	Ash gourd AVT-II	Accepted	
13.	Pumpkin IET	Accepted	
14.	Bitter gourd hybrid- IET	Accepted	
NMCA			
15	Effect of seed soaking duration on seed germination of bitter gourd cultivars	Consider as a filer trial	Prof. and Head, (Hort) NMCA, Navsari
FLORICULTURE & LANDSCAPE ARCHITECTURE			
Department of Floriculture (B.H.:12970)			
1.	Exploration and evaluation of local flora for value addition through dehydration.	Add Sample size, Write drying instead of dehydration,	Professor, Floriculture, ACHF, Navsari

2.	Standardization of dehydration technique in Rose var. Top secret, Gold strike and Rewine.	Write drying instead of dehydration, Sample Size 20 flowers with 3 repetition, Mention oven temperature, Add economics	Professor, Floriculture, ACHF, Navsari
3.	Assessment of genetic diversity of pot roses in soilless media under Greenhouse conditions	Submit the details of New Technical programme for combined joint Agresco In Observation: Add physiological and biochemical parameters and pest and diseases incidence	
4.	Genetic variability studies in Adenium using soilless media under Greenhouse condition	Submit the details of New Technical programme for combined joint Agresco	
5.	Genetic Improvement and DNA fingerprinting studies in <i>Adenium obesum</i> (Forssk.) Roem. and Schult	Submit the details of New Technical programme for combined joint Agresco	Professor, Floriculture, ACHF, Navsari
POST HARVEST TECHNOLOGY			
1.	Processing And Value Addition Of Watermelon [<i>Citrullus lanatus</i>]"	Approved	Asso. Professor,PHT, ACHF,Navsari.
2.	Standardization of technology for foam mat dehydration of sapota for powder making	Approved	
3.	Standardization of technology for foam mat dehydration of mango for powder making	Approved	
NATURAL RESOURCE MANAGEMENT			
1.	Effect of alternate raw planting and liquid manures on quality and productivity of banana-papaya under organic farming	-Recast title:Effect of liquid manures on quality and productivity of banana and papaya grown under alternate row system. Change forth objective and to work out the economics of different treatment	Asso.Professor, Organic Farming,ACHF,Nav sari
PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY			
1.	Microspore culture in eggplant for crop improvement	Accepted	Professor, Molecular Biology and Biotechnology ACHF, Navsari
2.	Effect of exogenous application of brassinosteroid on yield and quality of tomato (<i>Solanum lycopersicum</i> L.)	Mention the stage of spray (S), Mention gross and net plot size, Add single objective on growth, yield and quality In observation add Pest and disease incidence and economics, Make corrections in text	”

3.	Effect of pre-harvest water stress on yield and post harvest quality of cabbage (<i>Brassica oleraceae</i> var. <i>capitata</i> L.)	Consult Dr. Srivastav and frame it accordingly	“
HORTICULTURE PATHOLOGY			
1.	Assessment of crop loss due to complex of diseases and pests in bottle gourd	Accepted, add the name of Dr. K.N. Chaudhary,	Head, Plant Pathology
FORESTRY / AGROFORESTRY			
1.	Annual biomass, volume and carbon stock estimation of <i>Melia composita</i> Willd. through destructive method	Accepted	Principal, College of Forestry, ACHF, Navsari
2.	Refinement of protocol for mass multiplication of Teak	Recast the title	Principal, College of Forestry, ACHF, Navsari
3	Influence of weather parameters on foraging activity of stingless bees (<i>Tetragonula iridipennis</i> Smith) near the nests	Accepted	Principal, College of Forestry, ACHF, Navsari
4.	Nesting habitat and nest architecture of stingless bees (<i>Tetragonula iridipennis</i> Smith) in South Gujarat condition		
5.	Domestication of stingless bees (<i>Tetragonula iridipennis</i> Smith)		

Technical Session III –

On going/Concluded experiments

Chairman : Dr. D. B. Jadeja, Principal, College of Forestry, ACHF, Navsari

Co- Chairman : Dr. B. R. Parmar, Prof. & Head, (Hort), NMCA, NAU, Navsari

Rapporteurs : Dr. S. L. Chawla, I/C Prof (Flori), Dr. H. V. Pandya, Assoc. Prof. (Ento.) ACHF, NAU, Navsari

Respective scientists of NAU presented the ongoing/ concluded experiments. Total two hundred twenty ongoing experiments were discussed of which six experiments were decided to conclude and one modified in the house. The summary of ongoing as well as concluded experiments is as under.

SUMMARY :

Sr. No.	Center	No. of ongoing experiments	No. of concluded/ modified experiments	Deferred
1	ACHF	151	3	-
2	AES and Poly Tech., Paria	39	4	-
3	FRS, Gandevi	13	-	-
4	SWMRU, Navsari	2	-	-
5	College of Agri. And KVK, Waghai	4	-	-
6	College of Agri., Bharuch	7	-	-
7	KVK, Navsari	1	-	-
8	KVK, Surat	--	-	-
9	KVK, Vyara	3	-	-

Fruit Science

SN	Title	Reasons /Suggestions	Action to be taken
1	Canopy management in overcrowded high density planted (6x3 m) different mango cultivars.	All varieties at both height were not flowered during last three years- Concluded	Research Scientist, AES, Paria
2	Canopy management in overcrowded high density planted (5x5 m) different mango cultivars.	All varieties at both height were not flowered during last three years- Concluded	Research Scientist, AES, Paria
3	Effect of de-blooming on different mango varieties having tendency of off season flowering	Chemical de blooming was not effective, while by hand de-blooming, recurring flowering occur during end of the May and if early rain, adversely affected fruit set and quality of fruits- Concluded	Research Scientist, AES, Paria
4	Studies on suitability of different intercrops and their effect on	Due problems of peacock in rice, germination problem in indian	Principal Polytech. in Hort, Paria

	growth of rejuvenated mango orchard	bean and heavy flower drops in pigeon pea. Need to be Change the crops and variety as follows. Brinjal- var. Jambli, Pigeon Pea- var. Vaishali, Chilli var.- GVC-111, Modified	
--	-------------------------------------	---	--

Vegetable Science

SN	Title	Suggestions/ reasons	Action to be taken
1	Collection, evaluation and improvement of Surati Ravaiya type brinjal (<i>Solanum melongena</i> L.)	Due To RTI and PPVFR issues- Concluded	Prof. and Head, Dept of Veg. Science, ACHF, Navsari

Forestry

SN	Title	Suggestions/ reasons	Action to be taken
1	Induced resistance in Eucalyptus seedlings against gall insect	In last two years no infestation of gall was found- Concluded	Principal, College of Forestry, Navsari
2	In vitro growth of callus from normal and gall infected eucalyptus tissue	In last two years no infestation of gall was found- Concluded	Principal, College of Forestry, Navsari

Plenary Session

Chairman: Dr. C. J. Dangaria, Hon'ble Vice Chancellor, NAU, Navsari

Co-chairman: Dr. N. L. Patel, Principal and Dean ACHF, NAU, Navsari

Rapporteurs: Dr. Dev Raj, I/c Prof.(PHT) and Dr. R.V.Tank, Assoc. Prof.

Date: 11.03.2015

Venue: Swami Vivekanand Hall, ACHF, NAU, Navsari.

The Plenary Session of 11th meeting of Horticulture and Agro-Forestry Research Sub Committee was chaired by Dr. C. J. Dangaria, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari and Co-chaired by Dr. N. L. Patel, Principal and Dean on dated 11th March 2015 to discuss the outcomes of the two days meeting. At the outset, Dr. B. R. Parmar, Convener of the meeting welcomed Hon'ble Vice Chancellor, Dr. C. J. Dangaria, Principal and Dean, Dr. N. L. Patel, ADR, Dr. B.N. Patel and Principal (Forestry), Dr. D. B. Jadeja. During the plenary session, Dr. T. R. Ahlawat, presented the proceeding of the 32 recommendations (25 for farmers and 7 for scientific community), while, Dr. Alka Singh, presented the proceeding of the New Technical Programmes (60 accepted out of 70). In the very beginning, Hon'ble Vice Chancellor congratulated the members of Horticulture and Agro-Forestry Research Sub Committee for the acceptance of their recommendations and new technical programmes. They also appreciated the scientists for their significant contribution. They said that new technical programmes should be executed properly to bring out better recommendations in future. They said that the NAU have very good infrastructure and the scientist should work in the interest of farming community and should have honourship toward their work/office. Hon'ble Vice Chancellor had given more emphasis on team work to bring out good results. They also advised scientist to register the innovative research finding for the patenting particularly industrial process.

Lastly, Dr. Sagar Patil proposed vote of thanks. He very heartily thanked Dr. C.J. Dangaria, Hon'ble Vice Chancellor, Dr. A. N. Sabalpara, Director of Research, Dr. N.L. Patel, Principal and Dean; Dr. B.N. Patel, ADR; Dr. D.B. Jadeja, Principal (Forestry); Dr. B. R. Parmar, Convener of the meeting and all members of Horticulture and Agro-Forestry Research Sub Committee. He also thanks students and SRF involved in the meeting.