

PROCEEDINGS OF 16th JOINT AGRESO MEETING OF NAVSARI AGRICULTURAL UNIVERSITY HELD ON 16th MAY, 2020

Time: 9:30 a.m. onwards

Chairman : Dr. S. R. Chaudhary, Hon'ble Vice-Chancellor, NAU, Navsari.

Co-Chairman: Dr. M. K. Arvadiya, Principal, NMCA, NAU, Navsari.

Rapporteur : 1. Dr. P. B. Patel, Associate Research Scientist, MRRC, NAU, Navsari
2. Dr. Lalit Mahatma, Associate Professor, NMCA, NAU, Navsari

The meeting was started at 09.30 hrs, through online video conferencing by using the e class platform of the NAU, through the link eclass.nau.in with the physical presence of Chairman, Co-chairman, Rapporteur, IT staff, staff of Directorate of Research and concern convener of the AGRESO Sub-committee. Virtual presence and active participants of more than 80 scientists were reported during the technical discussion.

The meeting started with the address of Hon Vice Chancellor Dr. S.R. Chaudhary. He rightly emphasized the significance of organizing the meeting through Video Conference under pandemic situation of the Corona virus-COVID-19.

Dr. P. B. Patel (Convener, Crop Improvement), Dr. J. D. Thanki (Convener, NRM), Dr. D. R. Bhandari (Convener, Horticulture), Dr. R. P. Gunaga (Convener, Forestry), Dr. Lalit Mahatma (on behalf of Convener, Plant Protection), Dr. A. V. Narwade (Convener, Basic Science), Dr. P. K. Shrivastava (Convener, Agril. Engineering), Dr. Ruchira Shukla (Convener, Social Science), Dr. C. V. Savalia (Convener, Animal Health), and Dr. B. P. Brahmkshtri (Convener, Animal Production & Fisheries Science) had presented their report of respective AGRESO sub-committee. All the recommendations presented by different conveners were thoroughly screened by the house and approved with some suggestions. The proceeding is given in tabular form as under:

16.1 Crop Improvement

No.	Title	Suggestions	Action to be taken by
Recommendations of farming community			
16.1.1	Release proposal of rice variety NVSR-396 [GNR-8 (Aarti)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'average' instead of 'overall' ➤ Write 'બદામી ચુસીયા' instead of 'પાનના ચુસીયા' ➤ Write 'દાણો લાંબો અને જડો' instead of 'દાણો જડો' 	Associate Research Scientist, MRRC, NAU, Navsari
16.1.2	Release proposal of rice variety NVSR-6150 [GR-19 (Auranga)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'average' instead of 'overall' ➤ Write full form of BPH ➤ Write 'દાણો નાનો અને જડો' instead of 'દાણો જડો' ➤ Write good quality characters 	Associate Research Scientist, MRRC, NAU, Navsari
16.1.3	Release proposal of rice variety NVSR-2528 [GR-20 (Devli Kolam)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'average' instead of 'overall' ➤ Write 'સુચિત' instead of 'નવી' ➤ Write resistant reaction 	Associate Research Scientist, RRRS, NAU, Vyara
16.1.4	Release proposal of Mango Ginger variety NVMG-3 [GNMG-1 (Amravanti)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'per cent' instead of '%' 	Professor, Dept. of GPB, NMCA, Navsari
16.1.5	Release proposal of Elephant foot yam variety NEFY-7 [GEFY-1 (Swagata)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'per cent' instead of '%' ➤ Write 'carbohydrate content' instead of 'energy content' 	Associate Research Scientist, HMRS, NAU, Waghai
16.1.6	Release proposal of Sorghum variety SRF-332 [GFS-7 (Tapi Chari)]	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Write 'average' instead of 'overall' ➤ Write 'per cent' instead of '%' 	Research Scientist, MSRS, NAU, Surat
16.1.7	Release proposal of Sorghum variety SR-2980 [GJ-44 (Madhu)]	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Write 'high yielding' instead of 'higher yielder' 	Research Scientist, MSRS, NAU, Surat
16.1.8	Release proposal of Sorghum variety CRS-13 [GJ-45 (Madhu Moti)]	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write 'high yielding' instead of 'higher yielder' ➤ Write 'with respect to' instead of 'in respect to' 	Research Scientist, MSRS, NAU, Surat

16.1.9	Proposal for endorsement of cotton variety GSHV-172 (G.Cot.40)	Approved	Research Scientist, MCRS, NAU, Surat
16.1.10	Proposal for endorsement of cotton variety GSHV-180 (G.Cot.42)	Approved with following suggestion: ➤ Write 'average seed cotton yield' instead of 'average cotton yield'	Research Scientist, MCRS, NAU, Surat
New Technical Programme			
16.1.11	Development and characterization of EMS based mutant for improved floral traits for higher out crossing in rice.	Approved	Associate Research Scientist, RRRS, NAU, Vyara
16.1.12	Effect of row ratio on seed setting and seed yield of hybrid rice under hybrid seed production	Approved	

16.2 Natural Resource Management

No.	Title	Suggestions	Action to be taken by
Recommendations for farming community			
16.2.1	Study on drip system layout for different row spacing in vegetable Indian bean- sweet corn cropping sequence	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.2	Effect of different levels of irrigation and fertigation on <i>rabi</i> sorghum - vegetable cowpea cropping sequence	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.3	Nutrient management in Indian bean (var. GNIB 21) and its ratoon crop sequence	Approved	Nodal Officer (Megaseed) & Unit Head, PCRS, Navsari
16.2.4	Response of <i>rabi</i> castor to row spacings under different sowing window with or without intercrop of Indian bean (var. GNIB-21)	Approved with following suggestion: ➤ Correct name of variety in Gujarati recommendation	Nodal Officer (Megaseed) & Unit Head, PCRS, Navsari
16.2.5	Canopy management through mapiquat chloride under high density planting system of cotton (G. Cot 16) in irrigated conditions	Approved with following suggestion: ➤ Write 'cotton growers' instead of 'cotton growing farmers'	Research Scientist, MCRS, Surat

16.2.6	Soil test based recommendation for targeted yield of cotton	Approved	Research Scientist, MCRS, Surat
16.2.7	Weed management in <i>kharif</i> grain sorghum	Approved with following suggestion: ➤ Write 'achieving higher yield' instead of 'higher yield'	Research Scientist, MSRS, Surat
16.2.8	Response of summer sesame to nutrient management and irrigation scheduling	Approved	Asstt. Res. Sci., ARS, NAU, Achhalia
16.2.9	Effect of levels of nitrogen phosphorus and sulphur application on growth, yield and quality of linseed (<i>Linum usitatissimum</i> L.) under south Gujarat condition	Approved with following suggestion: ➤ Write 'ફેસફેરસ' instead of 'ફોસ્ફોરસ'	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.10	Integrated weed management in <i>rabi</i> maize	Approved with following suggestion: ➤ Write 'along with hand weeding' instead of 'and hand weeding' ➤ Add spray after pre-emergence in English recommendation ➤ Write 'હાથ નિંદણ' instead of 'હાથ નિંદામણ'	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.11	Integrated weed management in fodder oat	Approved with following suggestion: ➤ Mention spacing in recommendation	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.12	Production potential of fodder maize (<i>Zea mays</i> L.) with different fodder intercrops	Approved	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.13	Evaluation of different phosphorus management practices in <i>rabi</i> sorghum-summer green gram cropping sequence under south Gujarat condition	Approved with following suggestion: ➤ Write inoculum potential (IP) of Mycorrhiza ➤ Write 'પદ્ધતિ' instead of 'પદ્ધતિથી'	Prof. & Head, Dept. of SSAC, NMCA, NAU, Navsari
16.2.14	Effect of natural organic liquid on growth, yield and quality of green gram (<i>Vigna radiata</i> L.) under organic farming	Approved	Assoc. Prof., Dept. of SSAC, ACHF, NAU, Navsari

16.2.15	Response of little millet (Vari) to organics	Approved with following suggestions: ➤ Delete the name of variety ➤ Recast the recommendation	Assoc. Prof., Agronomy, COA, NAU, Waghai
16.2.16	Nutrient management in Dill Seed under south Gujarat condition	Approved with following suggestions: ➤ Replace 'monetary return' with 'net return'	Prof. of Agronomy, COA, NAU, Bharuch
16.2.17	Evaluation of castor based relay cropping sequences under rainfed condition of South Gujarat	Approved	Prof. of Agronomy, COA, NAU, Bharuch
16.2.18	Response of sugarcane to tillage and different intercropping system under south Gujarat condition	Approved	Prof. of Agronomy, COA, NAU, Bharuch
16.2.19	Weed control in tomato (<i>Lycopersicon esculentum</i> Mill.) through mulching and herbicides under drip irrigation conditions	Approved with following suggestion: ➤ Write 'for weed control' instead of 'for reducing weed growth'	Asstt. Prof., Horticulture Polytechnic, Paria
Recommendations for scientific community			
16.2.20	Weed management in <i>kharif</i> grain sorghum	Approved	Res. Sci., MSRS, Surat
16.2.21	Integrated weed management in fodder oat	Approved	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
New technical programmes			
16.2.22	Effect of irrigation and fertigation levels on ridge gourd under South Gujarat	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.23	Effect of different forms of gypsum on drip irrigated sugarcane	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.24	Effect of sub surface fertigation on fruit yield and quality of mango	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.25	Effect of zinc application in drip irrigated mango orchard	Approved	Research Scientist, SWMRU, NAU, Navsari

16.2.26	Survey of nutrient status of mango orchard in Valsad, Navsari and Tapi districts of South Gujarat	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.27	Developing suitable package of practices for wet DSR	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.28	Evaluation of low cost natural farming in rice under south Gujarat condition	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.29	Effect of irrigation and fertilizer levels on marvel grass under coastal salt affected soils	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.30	Effect of different forms of gypsum and wheat crop residue incorporation on rice-wheat cropping system in coastal salt affected soil	Approved	Research Scientist, SWMRU, NAU, Navsari
16.2.31	Assessment of planting geometry for single eye budded settling on sugarcane under south Gujarat condition	Approved	Research Scientist, MSRS, Navsari
16.2.32	Effect of nutrient management on sugarcane planted through single eye budded settling under south Gujarat condition	Approved	Research Scientist, MSRS, Navsari
16.2.33	Evaluation of low cost natural farming in sugarcane under south Gujarat condition	Approved	Research Scientist, MSRS, Navsari
16.2.34	Evaluation of ground water suitability for irrigation in Jalalpore taluka of Navsari district	Approved	<i>Prof. & Head, Dept. of SSAC, NMCA, NAU, Navsari</i>
16.2.35	Effect of soil and foliar application of multi-micronutrients on yield and quality of mango cv. Kesar	Approved	Research Scientist, AES, Paria
16.2.36	Integrated weed management in cotton	Approved	Research Scientist, MCRS, Surat
16.2.37	Evaluation of low cost natural farming in sorghum under south Gujarat condition	Approved	Research Scientist, MSRS, Surat
16.2.38	Spacing and fertilizer requirement of <i>kharif</i> grain sorghum	Approved	Research Scientist, MSRS, Surat

16.2.39	Studies on foliar spray of zinc on normal and late sown <i>rabi</i> castor	Approved	Asstt. Research Scientist, ARS, Achhalia
16.2.40	Response of pigeonpea to irrigation at different stages	Approved	Asstt. Research Scientist, ARS, Achhalia
16.2.41	Integrated nutrient management in <i>kharif</i> fodder sorghum under south Gujarat condition	Approved	Asstt. Research Scientist, ARS, Mangrol
16.2.42	Production potential of sole <i>rabi</i> sorghum as well as different legumes and <i>rabi</i> sorghum - legume competitive ability through additive series in inter cropping under south Gujarat condition	Approved	Asstt. Research Scientist, ARS, Mangrol
16.2.43	Study of critical crop-weed competition in summer pearl millet (<i>Pennisetum glaucum</i> L.)	Approved	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.44	Response of marvel grass (<i>Dichanthium annulatum</i>) to nitrogen and phosphorus	Approved	Prof. & Head, Dept. of Agronomy, NMCA, NAU, Navsari
16.2.45	To assess the impact of climate change on chickpea using CROPGRO model	Approved	Asstt. Professor, Agril. Meteorology Cell, NMCA, Navsari
16.2.46	Effect of spacing and fertilizer levels on <i>rabi</i> sweet corn (<i>Zea mays</i> L. var. <i>saccharata</i> Sturt)	Approved	Professor, Dept of Agronomy, COA, NAU, Bharuch
16.2.47	Response of Dill seed to sulphur, FYM and biofertilizers under south Gujarat condition	Approved	Professor, Dept of Agronomy, COA, NAU, Bharuch
16.2.48	Bio-chemical changes in leafy vegetables grown on contaminated and uncontaminated soils	Approved	Professor, Dept of Agronomy, COA, NAU, Bharuch

16.3 Horticulture

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
16.3.1	Integrated nutrient management in Sapota cv. Kalipatti	Approved with following suggestion: ➤ Recast the recommendation	Research Scientist. RHRS, NAU, Navsari
16.3.2	Effect of graded doses of paclobutrazol on flowering, yield and quality of mango cv. Alphonso	Approved with following suggestions: ➤ Write 'fruit yield' instead of 'yield' ➤ Write 'net profit' instead of 'net realization' ➤ Write 'Apply 150% RDF' instead of 'Apply RDF one and half time more'	Research Scientist. RHRS, NAU, Navsari
16.3.3	Impact of pre-soaking treatments on germination and growth of mango (<i>Mangifer aindica</i> L.) stones	Approved with following suggestion: ➤ Write '1% Novel Organic Liquid' instead of 'Novel organic liquid (1%)'	Research Scientist. RHRS, NAU, Navsari
16.3.4	Effect of foliar application of GA3 and CPPU on yield and quality of mango (<i>Mangifera indica</i> L.) cv. Kesar	Approved with following suggestion: ➤ Write 'જીબ્રેલિન એસિડ' instead of 'જી.એ.-૩' in this as well as other recommendations having GA3 in English and Gujarati version	Research Scientist. RHRS, NAU, Navsari
16.3.5	Effect of post flowering spray of chemicals on fruit retention and yield of mango cv. Kesar	Approved with following suggestion: ➤ Recast the recommendation of Gujarati language and mention AES-III too.	Research Scientist. RHRS, NAU, Navsari
16.3.6	Effect of biofertilizers, growth regulator and micronutrients on fruit growth, yield and quality of Sapota cv. Kalipatti	Approved with following suggestion: ➤ Write 'for getting higher yield and income' instead of 'gave higher yield and income'	Assoc. Res. Sci., FRS, NAU, Gandevi
16.3.7	High density orcharding in different varieties of mango	Approved with following suggestion: ➤ Recast the recommendation	Res. Sci., AES, NAU, Paria
16.3.8	Effect of tip pruning and foliar application of KNO ₃ on early flowering and yield of mango cv. Kesar	Approved with following suggestion: ➤ Recast the recommendation	Principal, Horti. Poly Tech., ACHF, NAU, Navsari

16.3.9	Effect of different sources of nutrients and fertigation levels on yield and other horticultural traits in tomato under protected culture	Approved with following suggestion: ➤ Write 'recommended' instead of 'advised' in this as well as other recommendations too wherever, it has been mentioned.	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.10	Feasibility of tomato cultivation through grafting during rainy season	Approved with following suggestion: ➤ Last line should end as “ less infestation of whitefly, leaf miner fruit borer and get higher yield and net return” ➤ In Gujarati write “પાન કોરિયુ” instead of “લીફ માઈનર”	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.11	Artificial oscillation for increasing fruit set and performance of tomato in polyhouse under South Gujarat conditions	Approved	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.12	Integrated Nutrient Management in Cabbage (<i>Brassica oleracea</i> L. var <i>Capitata</i>)	Approved	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.13	Validation of organic farming technologies in elephant foot yam	Approved with following suggestion: ➤ Check the dose of ' <i>Trichoderma harzianum</i> in FYM'	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.14	Integrated weed management in elephant foot yam	Approved with following suggestion: ➤ Approved with subject to check CIB guideline	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.15	Standardization of soil less media for brinjal plug tray nursery	Approved	Principal, Horti. Poly Tech, NAU, Paria
16.3.16	Integrated nutrient management in rose (<i>Rosa chinensis</i> L.)	Approved	Professor & Head, FLA, ACHF, NAU, Navsari
16.3.17	Effect of different growing media and foliar application of Nitrogen on Garlic, Fenugreek and Spinach	Approved	Professor & Head, FLA, ACHF, NAU, Navsari
16.3.18	Standardization of packing techniques for flower strings of marigold	Approved	Professor & Head, FLA, ACHF, NAU, Navsari

16.3.19	Standardization of technology for preparation of candy from ripe papaya (<i>Carica papaya</i> Linn.) fruits	Approved with following suggestion: ➤ Recast the recommendation paragraph	Professor & Head, PHT, ACHF, NAU, Navsari
16.3.20	Home scale ripening of Banana cv. Grand Naine	Approved with following suggestion: ➤ Write 'ઉંડણી' instead of 'રૂં' in Gujarati recommendation	Professor & Head, PHT, ACHF, NAU, Navsari
16.3.21	Effect of different cultivation practices on quality and yield of banana pseudostem sap	Approved with following suggestion: ➤ Recast the recommendation paragraph	Res. Sci. & Head, SWAMRU, NAU, Navsari
16.3.22	Residues of paclobutrazol in mango under South Gujarat conditions	Approved	Professor & Head, FQTL, NMCA, NAU, Navsari
16.3.23	Effect of different organic sources on yield and quality of banana under certified organic farm	Approved	Professor, NRM, ACHF, NAU, Navsari
Recommendation for scientific community			
16.3.24	Evaluation of bio agent, fungicides and physical method on germination and survival of mango (<i>Mangifera indica</i> L.) stone.	Approved with following suggestion: ➤ Write 'there was no significant' instead of 'there was no any significant'	Research Scientist, RHRS, NAU, Navsari
16.3.25	Effect of different light sources on growth and quality of micro-greens	Approved with following suggestion: ➤ Remove word 'content' from the calcium and potassium	Prof., Veg. Sci., ACHF, NAU, Navsari
16.3.26	Residues of paclobutrazol in Sapota under South Gujarat conditions	Approved with following suggestion: ➤ Recast the recommendation paragraph	Professor & Head, FQTL, NMCA, NAU, Navsari
New technical programmes			
16.3.27	Effect of weather parameters on flowering and fruiting of HDP mango under South Gujarat condition	Approved	Research Scientist, RHRS, NAU, Navsari
16.3.28	Phytochemical screening and determination of antioxidant activity of different mango cultivars	Approved	Research Scientist, RHRS, NAU, Navsari

16.3.29	Evaluation of guava cultivars under South Gujarat conditions	Approved	Research Scientist, RHRS, NAU, Navsari
16.3.30	Effect of different growing media on germination and growth of mango seedling	Approved	Assoc. Res. Sci., FRS, NAU, Gandevi
16.3.31	Compare the effect of different organic inputs in banana	Approved	Assoc. Res. Sci., FRS, NAU, Gandevi
16.3.32	Revalidation of recommended dose of N and K fertilizer in mango cv. Kesar	Approved	Research Scientist, AES, Paria
16.3.33	MLT (II) for mango hybrids	Approved	Research Scientist, AES, Paria
16.3.34	Flower and fruit regulation in Alphonso mango	Approved	Research Scientist, AES, Paria
16.3.35	Performance of okra varieties in different crop geometry under polyhouse conditions during winter season	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.36	Evaluation of bush type french bean varieties under polyhouse conditions	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.37	Evaluation of pole type french bean varieties under polyhouse conditions	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.38	Evaluation of cherry tomato varieties under polyhouse Conditions	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.39	Filler trial on Evaluation of broccoli varieties during rainy season under polyhouse conditions	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.40	Filler trial on Evaluation of garden pea (early) varieties during rainy season under polyhouse conditions	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari

16.3.41	Evaluation of Low Cost Natural Farming in cauliflower under south Gujarat condition	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.42	Response of Brinjal (GNRB-1) to foliar application of Novel Organic Liquid Nutrient and Micronutrients	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.43	Effect of different spacing and NAA on growth, yield and quality of summer Okra (NOL-17-05/GAO-5)	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.44	Response of Tomato (GT-7) to foliar application of Novel Organic Liquid Nutrient and Micronutrients.	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.45	Influence of sett size and spacing on growth and yield of greater yam (<i>Dioscoreaalata</i> L.)	Approved	Professor, Vegetable Science, ACHF, NAU, Navsari
16.3.46	Standardization of growing media for container gardening	Approved with following suggestion: ➤ Change title as “Standardization of growing media for brinjal and tomato of roof top condition”	Scientist, KVK, NAU, Surat
16.3.47	Effect of different potting media on gerbera cultivation in Polyhouse	Approved	Professor& Head, FLA, ACHF, NAU, Navsari
16.3.48	Evaluation of fern in different growing media under benching system in orchid (Dendrobium) polyhouse	Approved	Professor& Head, FLA, ACHF, NAU, Navsari
16.3.49	Evaluation of Sansevieria germplasm as potted Ornamental	Approved	Professor& Head, FLA, ACHF, NAU, Navsari
16.3.50	Standardization of Grafting Technique in Moon Cactus	Approved	Professor& Head, FLA, ACHF, NAU, Navsari

16.4 Forestry

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
16.4.1	Determination of critical limit of water salinity for <i>Ailanthus spp.</i> (Arduso) seedlings	Approved with following suggestion: ➤ Write 'ઠકી રહે છે' instead of 'વિકાસ પામી શકે છે' in Gujarati paragraph	HoD, NRM, CoF, NAU, Navasari
Recommendation for Scientific community			
16.4.2	Vegetative propagation of Dambel (<i>Tylophora indica</i>)	Approved with following suggestion: ➤ Correct the word ' Dambel' in recommendation paragraph	HoD, FPU, CoF, NAU, Navasari
New technical programmes			
16.4.3	Influence of pre-sowing treatments on germination and early growth in <i>Bauhinia malabarica</i> Roxb.	Approved	HoD, Silviculture & Agroforestry, CoF, NAU
16.4.4	Assessment of Pre-sowing treatments on seed germination and seedling vigour in <i>Milliusato mentosa</i> (Roxb.) J.Sinclair	Approved	HoD, Silviculture & Agroforestry, CoF, NAU
16.4.5	Effect of wind break (<i>Casuarin aequisetifolia</i> L.) on productivity of paddy in South Gujarat	Approved	HoD, Silviculture & Agroforestry, CoF, NAU
16.4.6	Influence of IBA on rooting of branch cuttings of <i>Swietenia macrophylla</i> King. And <i>S. mahagoni</i> (L.) Jacq	Approved	HoD, Silviculture & Agroforestry, CoF, NAU
16.4.7	Studies on physico-anatomical and chemical properties of Candidate Plus Trees (CPTs) of <i>Melia dubia</i> Cav. for pulp and paper quality from South Gujarat	Approved	HoD, Forest Products & Utilization, CoF, NAU
16.4.8	Removal of heavy metal ions from aqueous solutions by Bamboo wastes	Approved	HoD, Natural Resource Management, CoF, NAU
16.4.9	Biodiversity of Navsari city & its surroundings	Approved	HoD, Natural Resource Management, CoF, NAU
16.4.10	Human-Leopard Conflict zone grading in South Gujarat	Approved	HoD, Natural Resource Management, CoF, NAU

16.5 Plant Protection

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
16.5.1	Evaluation of different races of eri silkworm under laboratory condition for its suitability	Approved	Professor & Head, Dept. of Entomology, NMCA, NAU, Navsari
16.5.2	Standardize the height of pheromone traps in pigeonpea ecosystem for the mass trapping of <i>Helicoverpa armigera</i> (Hubner)	Approved	Professor & Head, Dept. of Entomology, NMCA, NAU, Navsari
16.5.3	Study the activity period of honey bees in pointed gourd	Approved with following suggestion: ➤ Add word 'કલસ' in Gujarati paragraph	Professor & Head, Dept. of Entomology, NMCA, NAU, Navsari
16.5.4	Pollinators fauna in lucerne flora	Approved with following suggestion: ➤ Add word 'કલસ' in Gujarati paragraph	Professor & Head, Dept. of Entomology, NMCA, NAU, Navsari
16.5.5	Evaluation of different oils against sorghum shoot fly	Approved with following suggestions: ➤ Put the word '૧૦ ડિગ્રી પાર્શ્વે ૫૦ મિલી' into bracket ➤ Write word 'advised' instead of 'advice'	Assistant Research Scientist (Ento.), MSRS, NAU, Surat
16.5.6	Biological management of foot rot in finger millet	Approved with following suggestions: ➤ Write the full form of Genus ➤ Remove word 'નિવેશિત મુળ' and write only 'મુળ' in Gujarati paragraph	Asstt. Professor, College of Agriculture, NAU, Waghai
16.5.7	Evaluation of fungicides for the management of false smut of rice	Approved with following suggestion: ➤ Write ' for higher grain and straw yield' instead of ' to harvest higher grain and straw yield'	Asstt. Research Scientist Main Rice research centre, SWMRU, NAU, Navsari

16.5.8	Management of rice seedling rot caused by <i>Sclerotium rolfsii</i>	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Write ' 305544' instead of ' 30444' ➤ Write 'along with good seedling vigour' instead of 'with minimum seedling mortality' ➤ Mention CFU of <i>Trichoderma harzianum</i> ➤ Remove word 'alone' before seed treatment 	Assistant Research Scientist, Regional Rice Research Station, NAU, Vyara
Recommendation for scientific community			
16.5.9	Evaluation of different substrates for mass culturing of <i>Beauveria bassiana</i> (Bals.) Vuill	Approved	Professor & Head, Department of Entomology, NMCA, NAU, Navsari
16.5.10	Screening of pigeon pea genotypes against pod borer and pod fly under natural field condition	Approved	Assistant Research Scientist (Ento), College of Agriculture, NARP, NAU Bharuch
16.5.11	Screening of promising genotypes for multiple resistance against stem borer <i>Scirpophaga incertulas</i>), leaf folder (<i>Cnaphalocrocis medinalis</i>) and sheath mite (<i>Steneotarsonus muspinkii</i>) of rice	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Put scientific name of insect in to bracket 	Associate Research Scientist (Ento), Main Rice Research Centre, SWMRU, NAU, Navsari
16.5.12	Study incidence of insect-pests in high density mango plantation under drip irrigation	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Recast the recommendation paragraph 	Asstt. Research Scientist (Ento), Soil and Water Management Research Unit, NAU, Navsari
16.5.13	Varietal preference of insect-pests incidence in ultra high-density mango plantation under drip irrigation	Approved	Asstt. Research Scientist (Ento), Soil and Water Management Research Unit, NAU, Navsari
16.5.14	Assessment of the crop loss due to insect pests and diseases in sorghum	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Add word 'due to disease' before name of disease 	Asstt. Research Scientist (Ento), Main Sorghum Research Station, NAU, Surat

16.5.15	Documentation and monitoring population of pollinators on mango	Approved	Asstt. Research Scientist (Ento), AES, NAU, Paria
16.5.16	Assessment of yield losses due to pest and diseases in papaya	Approved	Assistant Research Scientist (Patho), Fruit Research Station, NAU, Gandevi
16.5.17	Studies on natural parasitization of sugarcane shoot borer	Approved	Scientist (Pl. Protection) KVK, NAU, Vyar
16.5.18	Effect of ozonized water washing on pesticide residues and shelf-life of green chilli and okra	Approved	Asstt. Professor, Food Quality Testing Laboratory, NAU, Navsari
16.5.19	Status of pesticide residues in seasonal green leafy vegetables in South Gujarat	Approved with following suggestion: ➤ Put “symbol of coma” between fenugreek and spinach	Asstt. Professor, Food Quality Testing Laboratory, NAU, Navsari
16.5.20	Screening of little millet (<i>Panicum miliare</i> L.) varieties and germplasms against blast	Approved with following suggestion: ➤ Delete the last sentence of recommendation paragraph	Asstt Professor, College of Agriculture, NAU, Waghai
16.5.21	Screening of mungbean entries against mungbean yellow mosaic (LSET-I & SSET)	Approved with following suggestion: ➤ Indicate screening condition (Natural or artificial)	Asstt. Research Scientist (Patho), Pulses and Castor Research Station, NAU, Navsari
16.5.22	Screening of urdbean entries against mungbean yellow mosaic (SSET)	Approved with following suggestion: ➤ Indicate screening condition (Natural or artificial)	Asstt. Research Scientist (Patho), Pulses and Castor Research Station, NAU, Navsari
16.5.23	Screening of cowpea entries against yellow mosaic (SSET & PET)	Approved with following suggestion: ➤ Indicate screening condition (Natural or artificial)	Asstt. Research Scientist (Patho), Pulses and Castor Research Station, NAU, Navsari
16.5.24	Screening of Indian bean entries against yellow mosaic and powdery mildew (SSET)	Approved with following suggestion: ➤ Indicate screening condition (Natural or artificial)	Asstt. Research Scientist (Patho), Pulses and Castor Research Station, NAU, Navsari

16.5.25	Assessment of yield losses due to pest and diseases in banana	Approved with following suggestion: ➤ Add the authority of <i>Odioporus longicollis</i>	Assistant Research Scientist (Ento), Fruit Research Station, NAU, Gandevi
16.5.26	Integrated management of papaya diseases	Approved with following suggestion: ➤ Mention name of Papaya diseases ➤ Time of growing border rows should be mentioned	Assistant Research Scientist (Patho), Fruit Research Station, NAU, Gandevi
New technical programmes			
16.5.27	Seasonal incidence of natural enemies of lac insect, <i>Kerria lacca</i> (Kerr.)	Approved	Professor & Head, Department of Entomology, NMCA, NAU, Navsari
16.5.28	<i>In vitro</i> compatibility of <i>Metarhizium anisopliae</i> with insecticides	Approved	Professor & Head, Department of Entomology, NMCA, NAU, Navsari
16.5.29	Survey of natural enemies of <i>Helicoverpa armigera</i> (Hubner) in gram	Approved	Assit. Professor, Department of Entomology, College of Agriculture, NAU, Waghai
16.5.30	Survey of natural enemies of <i>Spodoptera frugiperda</i> (J. E. Smith) in maize	Approved	Associate Professor, Department of Entomology, College of Agriculture, NAU, Waghai
16.5.31	Evaluation of different insecticides, their application methods and bio-efficacy, Phyto-toxicity and residue in Indian bean	Approved	Assistant Research Scientist (Ento.)SWMRU, NAU, Navsari
16.5.32	Management of borer complex in sorghum	Approved	Assistant Research Scientist, Main Sorghum Research Station, NAU, Surat
16.5.33	Management of mango stem borer (<i>Batocera rufomaculata</i>) using 'Arka Borer Control' [AICRP on Fruits (Mango)]	Approved	Research Scientist, Agriculture Experimental Station, NAU, Paria
16.5.34	Management of mango hopper and thrips on mango by oil based formulation of <i>Metarhizium anisopliae</i> [AICRP on Fruits (Mango)]	Approved	Research Scientist, Agriculture Experimental Station, NAU, Paria

16.5.35	Evaluation of different botanical formulations for management of sucking pest complex in mango	Approved	Research Scientist, Agriculture Experimental Station, NAU, Paria
16.5.36	Evaluation of different botanicals for the control of Tea Mosquito Bug (TMB), <i>Helopeltis antonii</i> Signoret in cashew [AICRP on Fruits (Mango)]	Approved	Research Scientist, Agriculture Experimental Station, NAU, Paria
16.5.37	Varietal performance of sapota against major insect pests under high density plantation	Approved	Asstt. Res. Sci. (Ento), Fruit Research Station, NAU, Gandevi.
16.5.38	Status of pesticides residues in honey samples of Gujarat	Approved	Asstt. Res. Sci FQTL, NAU, Navsari
16.5.39	Bio efficacy of bioformulations against <i>Spodoptera frugiperda</i> (J. E. Smith) under South Gujarat condition	Approved	Professor & Head, Department of Entomology, NMCA, NAU, Navsari
16.5.40	Effect of biofilms formation in <i>Trichoderma-Azotobacter</i> interaction against <i>Macrophomina phaseolina</i>	Approved	Professor & Head, Department of Plant Pathology, NMCA, NAU, Navsari
16.5.41	Investigations on leaf rust disease of Champa (<i>Plumeria</i> spp.)	Approved	Professor & Head, Department of Plant Pathology, NMCA, NAU, Navsari
16.5.42	Management of leaf flower blight of Marigold	Approved	Professor & Head, Dept. of Plant Protection, ACHF, NAU, Navsari
16.5.43	Evaluation of efficacy of bioagents against cotton disease, AICRP-CICR programme	Approved	Assistant Research Scientist (Patho.), Main Cotton Research Station, NAU, Surat
16.5.44	Efficacy of fungicides and bio-Pesticides against sorghum grain mold	Approved	Assistant Research Scientist (Patho.), Main Cotton Research Station, NAU, Surat
16.5.45	Evaluation of bio-formulation against Fusarium wilt in banana (observation trial)	Approved	Assistant Research Scientist (Patho.), Fruit Research Station, NAU, Gandevi

16.5.46	Evaluation of locally available substrates and their combinations for the cultivation of Oyster mushroom in the Dangs	Approved	Associate Professor (Patho.), College of Agriculture, NAU, Waghai
16.5.47	Evaluation of different chopped stalk and strain spawns for the cultivation of Oyster mushroom in the Dangs	Approved	Associate Professor (Patho.), College of Agriculture, NAU, Waghai
16.5.48	Survey, collection and preparation of mushroom fungi from Dangs district of South Gujarat	Approved	Associate Professor (Patho.), College of Agriculture, NAU, Waghai

16.6 Basic Science

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
16.6.1	Effect of phosphate solubilizing microbes in wheat (<i>Triticum aestivum</i>) under saline conditions	Approved with following suggestion: ➤ Mention the recommended dose of chemical fertilizer	Professor & Head, Dept. of Plant Pathology, NMCA, NAU, Navsari)
16.6.2	Evaluation of different methods for manure preparation from straw and threshing waste of rice	Approved with following suggestions: ➤ Remove '114 days' in English recommendation paragraph ➤ Mention name of species of <i>Aspergillus</i> and also CFU and dose of it	Professor & Head, Dept. Food Quality Testing Lab., NMCA, NAU, Navsari)
16.6.3	Effect of exogenous application of brassinosteroid on yield and quality of tomato (<i>Solanum lycopersicum</i> L.)	Approved with following suggestion: ➤ Mention 'AES III' in Gujarati recommendation paragraph	Professor & Head, Dept. of Plant Molecular Biology & Biotech, ACHF, NAU, Navsari)
Recommendation for scientific community			
16.6.4	Optimization of denovo regeneration protocol and selection of glyphosate tolerant line for <i>Cynodon dactylon</i> variety Selection 1	Approved with following suggestion: ➤ Write 'higher callus' instead of 'highest callus'	Principal, ASBI, NAU, Surat
16.6.5	Optimization of amylase production by soil isolate under solid state fermentation (SSF)	Approved with following suggestion: ➤ Write '60 hrs' instead of '60 hr'	Principal, ASBI, NAU, Surat

16.6.6	Influence of various nanoparticles on contamination in micropropagation of banana	Approved with following suggestion: ➤ Write 'can reduced' instead of 'reduced'	Principal, ASBI, NAU, Surat
16.6.7	Screening of cotton genotypes for salinity tolerance	Approved with following suggestion: Write 'based be on' instead of 'based'	<i>Research Scientist, Main Cotton Research Station, NAU, Surat</i>
16.6.8	Biochemical traits in relation to insect tolerance of wild species and cross derivatives involving wild species of cotton	Approved	<i>Research Scientist, Main Cotton Research Station, NAU, Surat</i>
16.6.9	Study of free living nitrogen fixing bacterial diversity with respect to seasonal variation	Approved	Principal, CoA, NAU, Bharuch
16.6.10	Assessment of various anti-nutritional factors from different varieties of pigeon pea	Approved	Principal, CoA, NAU, Bharuch
16.6.11	Isolation and characterization of endophytic bacteria from Finger millet	Approved with following suggestion: ➤ Write 'shows' instead of 'showed'	Principal, CoA, NAU, Waghai
16.6.12	Study of starch quality in greater yam <i>Dioscorea alata</i>	Approved with following suggestions: ➤ Write 'shows' instead of 'showed' ➤ Write 'respectively' instead of 'receptively'	Professor & Head, Dept. of Soil Science & Agri. Chem., NMCA, NAU, Navsari)
16.6.13	Isolation and characterization of plant growth promoting Actinomycetes from rhizospheric soil	Approved	Professor & Head, Dept. of Plant Pathology, NMCA, NAU, Navsari)
16.6.14	Optimization of micropropagation protocol for different genotypes of banana	Approved with following suggestion: ➤ Write 'genotypes shows' instead of 'genotype showed'	Dept. of GPB (Plant Physiology), NMCA, Navsari)
16.6.15	Status of heavy metals in green leafy vegetables grown under South Gujarat region	Approved	Professor & Head, Dept. Food Quality Testing Lab., NMCA, NAU, Navsari)

16.6.16	Surveillance of aflatoxin in pasteurized and raw milk	Approved with following suggestion: ➤ Write 'compared to cow milk' instead of 'compared cow milk'	Professor & Head, Dept. Food Quality Testing Lab., NMCA, NAU, Navsari)
16.6.17	Effect of liquid culture media in micropropagation of banana cv. Grand Naine	Not Approved	Professor & Head, Dept. of Plant Molecular Biology & Biotech, ACHF, NAU, Navsari)
16.6.18	Amino acid profiling of released varieties of pigeon pea from SAUs of Gujarat	Approved with following suggestion: ➤ Give the data in tabular form and likewise recast the recommendation	Professor & Head, Dept. of Plant Molecular Biology & Biotech, ACHF, NAU, Navsari)
16.6.19	Identification and trouble shooting of microbial contamination occurs during canning of mango pulp	Approved	Professor & Head, Dept. of PHT, ACHF, NAU, Navsari
16.6.20	Identification and validation of sex linked markers in Palmyra palm (<i>Borassus flabellifer</i>)	Recommendation is Approved for farming community	Professor & Head, Dept. of Basic Science, CoF, ACHF, Navsari
New technical programmes			
16.6.21	Study on survival and efficacy of microbial bioinoculants in banana pseudostem based Novel	Approved	Principal, ASBI, NAU, Surat
16.6.22	Response of Bt cotton to different plant growth regulators	Approved	Research Scientist, Main Cotton Research Station, NAU, Surat
16.6.23	Evaluation of biochemical parameters of selected cotton genotypes	Approved	Research Scientist, Main Cotton Research Station, NAU, Surat
16.6.24	Comparative study of biochemical parameters in dry and sprouted seed of green gram	Approved	Principal, CoA, NAU, Bharuch
16.6.25	Molecular characterization of banana genotypes	Approved	Dept. of GPB (Plant Physiology), NMCA, Navsari
16.6.26	Application of CSM-CERES-Rice model for assessment of plant density and nitrogen management of transplanted rice for tropical environment	Approved	Dept. of GPB (Plant Physiology), NMCA, Navsari

16.6.27	Isolation and characterization of chitinolytic bacteria	Approved	Professor & Head, Dept. Food Quality Testing Lab., NMCA, NAU, Navsari
16.6.28	Characterization of bioactive molecule produced by <i>Fusarium verticillioides</i>	Approved	Professor & Head, Dept. Food Quality Testing Lab., NMCA, NAU, Navsari
16.6.29	Optimization of expression level of recombinant protein from <i>E. coli</i> strains BL21(DE3)	Approved	Professor & Head, Dept. of Plant Molecular Biology & Biotech, ACHF, NAU, Navsari
16.6.30	Exploration and evaluations of mangrove diversity along coastal belt of South Gujarat	Approved	Professor & Head, Dept. of Basic Science, CoF, ACHF, Navsari

16.7 Agricultural Engineering

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
16.7.1	Evaluation of Solar tunnel dryer for feasibility of green leaves drying for herbal product in Dediapada.	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Recast English and Gujarati recommendation paragraph ➤ Write word 'South Gujarat' instead of 'Dediyapada' 	HoD, REE, CAET, Dediapada
16.7.2	Modification of NAU designed hold-on type power operated paddy thresher	Approved with following suggestions: <ul style="list-style-type: none"> ➤ Recast Gujarati recommendation paragraph as per English ➤ After recommendation of release committee made for machine checking, then put it further 	HoD, Dept. of Agricultural Engineering, NMCA, Navsari
16.7.3	Influence of land configuration on productivity of Sorghum (<i>Sorghum bicolor</i> L.) Crop in Vertisol of South Gujarat	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Recast Gujarati recommendation paragraph as per English 	HoD, Dept. of Agricultural Engineering, NMCA, Navsari
16.7.4	Effect of different colour shade nets on biomass and quality of leafy vegetables	Approved with following suggestion: <ul style="list-style-type: none"> ➤ Put sign '≥' instead of '/' 	Research Scientist, SWMRU, NAU, Navsari

16.7.5	Development of technology for ready to use freeze dried tomato (<i>Solanum lycopersicum</i> L.) slice	Approved with following suggestion: ➤ Recast Gujarati recommendation paragraph as per English	HoD, Center of Excellence on Post Harvest Technology & Process Engineering, ACHF.
Recommendation for Scientific community			
16.7.6	Assessment of Water Resources of Navsari and Dang District using Water Quality Index and GIS	Approved with following suggestion: ➤ Delete the “Hence, it is informed.....regulatory programmes.	Assist. Prof., Ag. Engineering, COA, NAU, Waghai
New technical programmes			
16.7.7	Design and development of tractor hydraulic operated cone penetrometer	Approved	HoD, REE, CAET, Dediapada
16.7.8	Evaluation of mole drain on okra crop	Approved	HoD, Department of Agricultural Engineering, NMCA, Navsari
16.7.9	Feasibility test on inclined plate type seed cum fertilizer drill on direct sowing rice (aerobic condition)	Approved	HoD, Department of Agricultural Engineering, NMCA, Navsari
16.7.10	Effect of different establishment methods on rice crop (<i>Oryza sativa</i> L.) and evaluation of CERES rice model	Approved	HoD, Department of Agricultural Engineering, NMCA, Navsari
16.7.11	Development and testing of runoff water filter with semi-auto flushing system for ground water recharge	Approved	HoD, Soil and Water Management Research Unit
16.7.12	To identify maturity and harvesting indices as non-destructive index and relate with physico-chemical parameters of Sonpari mango	Approved	HoD, Center of PHT & PE, ASPEE
16.7.13	To standardize storage parameters for Sonpari mango to extend shelf life.	Approved	HoD, Center of PHT & PE, ASPEE
16.7.14	To standardize forced ripening process using ethylene gas in ripening room for Sonpari mango.	Approved	HoD, Center of PHT & PE, ASPEE
16.7.15	To design and develop packaging box for Sonpari mango.	Approved	HoD, Center of PHT & PE, ASPEE

16.7.16	Evaluation of the drip irrigation system on crop yield, water use efficiency & growth of sorghum crop in south Gujarat condition	Approved	Research Scientist, Main Sorghum Research Station, NAU, Athwa Farm, Surat
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16.8 Social Science

No.	Title	Suggestions	Action to be taken by
Recommendation for farming community			
(Nil)			
Recommendation for scientific community			
16.8.1	Professionalism in Management of Primary Dairy Cooperatives in South Gujarat.	Approved	HoD, Extension Education, NMCA, NAU, Navsari
16.8.2	Training needs of the farmers in Vegetable Cultivation	Approved	Senior Scientist & Head, KVK, NAU, Waghai, Dangs
New technical programme			
16.8.3	Adoption gap in recommended pigeon pea practices in Narmada district	Approved	Head, KVK, NAU, Dediapada
16.8.4	Awareness about agricultural hazards among the farmers of South Gujarat	Approved	HoD, Department of Extension Education, NMCA, NAU, Navsari
16.8.5	A scale construction on perception of crisis and it's management	Approved	HoD, Department of Extension Education, NMCA, NAU, Navsari
16.8.6	A scale on attitude of employees towards ICTs apparatus for exploring agricultural information	Approved	HoD, Department of Extension Education, NMCA, NAU, Navsari
16.8.7	Scale to measure knowledge of rural women about the agro based enterprises	Approved	Head, KVK, NAU, Vyara
16.8.8	Perception of UG students towards educational environment of College of Agriculture, Waghai	Approved	Principal, Polytechnic in Agriculture, NAU, Waghai

16.8.9	Perception of students about Diploma to Degree programme	Approved	Principal, Polytechnic in Agriculture, NAU, Vyara
16.8.10	Adoption of recommended sugarcane technologies released for farming community in Surat district	Approved	Head, KVK, NAU, Surat
16.8.11	Adoption of recommended sugarcane technologies released for farming community in Navsari district	Approved	Head, KVK, NAU, Navsari
16.8.12	Adoption of recommended sugarcane technologies released for farming community in Tapi district	Approved	Head, KVK, NAU, Vyara
16.8.13	Adoption of recommended finger millet technologies released for farming community in Dangs district	Approved	Head, KVK, NAU, Dangs
16.8.14	Economic analysis of Papaya production in South Gujarat	Approved	HoD, Department of Agricultural Economics, NMCA,NAU,Navsari
16.8.15	Economic assessment of private horticulture nurseries in Navsari district of Gujarat	Approved	HoD, Department of Agricultural Economics, NMCA,NAU,Navsari
16.8.16	Growth and instability analysis of area and production in forestry sector of Gujarat	Approved	HoD, Department of Agricultural Economics,ACHF, NAU, Navsari
16.8.17	Economic analysis of tissue culture banana in Bharuch district of South Gujarat	Approved	Principal, College of Agriculture, NAU, Bharuch
16.8.18	Dynamics of area, production, productivity and export of pulses in Gujarat	Approved	Principal, College of Agriculture, NAU, Waghai

16.8.19	Milk production, consumption, disposal pattern and constraints faced by women dairy farmers of South Gujarat	Approved	Principal, ASPEE Agribusiness Management Institute, NAU, Navsari
16.8.20	Social media awareness and usage behaviour among farmers for agricultural marketing of South Gujarat	Approved	Principal, ASPEE Agribusiness Management Institute, NAU, Navsari
16.8.21	Construction of selection indices using different economic coefficients to select optimum selection index in Indian bean (<i>Lablab purpureus</i> L. <i>sweet</i>)	Approved	HoD, Department. of Agricultural Statistics, NMCA, NAU, Navsari
16.8.22	Stability of sorghum genotype through AMMI model in Gujarat	Approved	Principal, College of Agriculture, NAU, Bharuch
16.8.23	Estimation of cotton yield using Two-phase sampling approach	Approved	Principal, College of Agriculture, NAU, Waghai

16.9 Animal Health

No.	Title	Suggestions	Action to be taken by
Recommendation for Farmers			
(Nil)			
Recommendations for Scientific Community			
16.9.1	Formulation and in-vitro evaluation of quercetin loaded micro emulsion for pharmacological properties	Approved	PI through HoD, Vet. Pharmacology & Toxicology
16.9.2	In vitro evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone	Approved with following suggestion: ➤ Write full name of genus	PI through HoD, Vet. Pharmacology & Toxicology
16.9.3	In vitro evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone	Approved with following suggestion: ➤ Write full name of genus	PI through HoD, Vet. Pharmacology & Toxicology
16.9.4	In vitro evaluation of combination effect of Rutin with Enrofloxacin, Gentamicin sulphate and Ceftriaxone	Approved with following suggestion: ➤ Write full name of genus	PI through HoD, Vet. Pharmacology & Toxicology
16.9.5	Evaluation of in vivo anti-inflammatory and antibacterial activities of Ellagic acid following intramuscular administration in albino rats.	Approved	PI through HoD, Vet. Pharmacology & Toxicology
16.9.6	Histopathological study on renal lesions in animals	Approved	PI through HoD, Vet. Pathology
16.9.7	Evaluation of various therapeutic techniques for posterior paresis in dogs	Approved	PI through HOD, Veterinary Surgery and Radiology
New Technical Programmes			
16.9.8	Evaluation of in vitro antibacterial effect of Linalool combined with Enrofloxacin, Gentamicin sulphate and Ceftriaxone	Approved	HoD, Department of Veterinary Pharmacology & Toxicology

16.9.9	In vitro antibacterial effect of Catechin combined with Enrofloxacin, Gentamicin sulphate and Ceftriaxone	Approved	HoD, Department of Veterinary Pharmacology & Toxicology
16.9.10	In vitro evaluation of lemon grass (<i>Cymbopogon flexuosus</i>) extract for pharmacological properties	Approved	HoD, Department of Veterinary Pharmacology & Toxicology
16.9.11	Effect of Shetur/Black mulberry (<i>Morusnigra</i>) plant leaves extract supplementation in Tris Egg Yolk Citrate Extender on cryopreserved Surti buck semen quality.	Approved	HoD, Department of Veterinary Gynaecology& Obstetrics
16.9.12	Effect of Mango (<i>Mangifera indica</i>) plant leaves extract supplementation in Tris Egg Yolk Citrate Extender on Surti buck semen quality preserved at refrigerated temperature	Approved	HoD, Department of Veterinary Gynaecology& Obstetrics
16.9.13	Detection of haemoprotozoan parasites in salivary glands of common bovine ticks.	Approved	Principal, Polytechnic in Animal Husbandry, NAU, Navsari
16.9.14	In vitro anthelmintic activity of herbal extracts against <i>Haemonchus contortus</i> of goats.	Approved	Principal, Polytechnic in Agriculture, NAU, Vyara

16.10. Animal Production and Fisheries Science

No.	Title	Suggestions	Action to be taken by
Recommendation for Farmers			
16.10.1	Effect of heat ameliorative measures during dry period on production performance in subsequent lactation in Surti buffaloes	Approved with following suggestion: ➤ Write 'શક્તિ વધે છે તેમજ' instead of 'શક્તિ વધે તેમજ'	PI through HOD, Veterinary Physiology and Biochemistry
16.10.2	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat.	Approved with following suggestions: ➤ Write 'up to level' instead of 'at level' ➤ Write 'તાજ' instead of 'તાઝા'	PI through HOD, Animal Nutrition
16.10.3	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat.	Approved with following suggestion: ➤ Write 'પોષકતત્વોની ૭૦% થી વધુ પાચ્યતા' instead of 'પોષકતત્વોની પાચ્યતા ૭૦% થી વધુ'	PI through HOD, Animal Nutrition
16.10.4	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat.	Approved with following suggestion: ➤ Add 6% in Gujarati recommendation paragraph	PI through HOD, Animal Nutrition
Recommendation For Scientific Community			
16.10.5	Measurement of heat stress and its impact on behaviour and production performance in surti buffaloes in different seasons	Approved	PI through HOD, Veterinary Physiology and Biochemistry
16.10.6	Cutaneous thermal profiling of Surti does in different seasons	Approved	PI through HOD, Veterinary Physiology and Biochemistry
16.10.7	Cutaneous thermal profiling of Surti does in different seasons	Approved	PI through HOD, Veterinary Physiology and Biochemistry

16.10.8	Study of genetic polymorphism in growth related genes and its association with growth parameters in Surti goats	Approved	PI through HOD, Animal Genetics & Breeding
16.10.9	Relative gene expression study on casein protein and its regulatory genes in mammary epithelial cells of surti goat	Approved with following suggestion: ➤ Write '800 ml milk. instead of ' Eight hundred ml milk'	PI through HOD, Animal Genetics & Breeding
16.10.10	Relative gene expression study on casein protein and its regulatory genes in mammary epithelial cells of surti goat	Approved	PI through HOD, Animal Genetics & Breeding
16.10.11	Relative gene expression study on casein protein and its regulatory genes in mammary epithelial cellsof surti goat	Approved	PI through HOD, Animal Genetics & Breeding
16.10.12	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat	Approved with following suggestion: ➤ Write 'as a result having' instead of 'and having'	PI through HOD, Animal Nutrition
16.10.13	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat	Approved	PI through HOD, Animal Nutrition
16.10.14	Nutrient composition, in vitro feed degradation and microbial biomass yield estimation of unconventional feed resources for ruminants in south Gujarat.	Approved	PI through HOD, Animal Nutrition

New Technical Programme			
16.10.15	Effect of rumen protected niacin supplementation on sweating rate, oxidative stress and skin temperature during summer in Surti buffaloes	Approved	HoD, Physiology and Biochemistry Dr. Sandhya S. Chaudhary
16.10.16	Study of changes in udder temperature, milk composition and somatic cell count of Surti buffaloes during different stages of lactation	Approved	HoD, Physiology and Biochemistry Dr. V. K. Singh
16.10.17	Study of changes in udder temperature, milk composition and somatic cell count of Surti goat during different stages of lactation.	Approved	HoD, Physiology and Biochemistry Dr. Tanvi D. Manat
16.10.18	Placental morphometry vis-à-vis neonatal behavior in Surti buffaloes.	Approved	HoD, Livestock Production Management Dr. T. K. S. Rao
16.10.19	Impact of light sources on broiler performance	Approved	HoD, Instructional Livestock Farm Complex Dr. Y. D. Padheriya
16.10.20	Association of udder and teat morphometric with milk yield and udder health in lactating Surti buffaloes	Approved	Principal, Polytechnic in Animal Husbandry Dr. K. K. Verma

After the marathon presentation of all the recommendations by the respective conveners, the meeting was ended with the satisfactory remarks and thanks of Hon Vice Chancellor & chairman Dr. S.R. Chaudhary, he also appreciated hard work of conveners and active participation by faculties of NAU, Navsari for making Joint AGRESCO successful.

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Approved
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