

**PROCEEDINGS OF 11TH JOINT AGRESO MEETING OF
NAVSARI AGRICULTURAL UNIVERSITY HELD ON 23rd MARCH, 2015**

Venue : Seminar Hall, N. M. College of Agriculture, NAU, Navsari **Time:** 9:00 a.m. onwards

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

Co-Chairman : 1. Dr. A.N. Sabalpara, Director of Research & Dean, P.G. Studies, NAU, Navsari.

Co-Chairman : 2. Dr. G.R. Patel, Director of Extension Education, NAU, Navsari.

Rapporteur : 1. Dr. H. V. Pandya, Associate Professor, Dept. of Entomology, ACHF, NAU, Navsari

2. Dr. D.A. Chauhan, Nodal Officer, Mega Seed and Associate Professor, Pulses Research Station, N.A.U., Navsari

Eleventh Joint AGRESO meeting of NAU was held in Seminar Hall of N.M. College of Agriculture, Navsari on 23-03-2015. The inaugural session was chaired by Hon'ble Vice Chancellor Dr. C.J. Dangaria. Other dignitaries viz., Director of Research and Dean PGS, Dr. A.N. Sabalpara and Director of Extension Education Dr. G.R. Patel were also present in the inaugural function. Dignitaries opened the meeting by lightening the lamp. Dignitaries as well as Dean, Agriculture, Dr. M.K. Arvadia, Dean, Horticulture, Dr. N.L. Patel, Dean, Veterinary, Dr. N.H. Kelawala, Dean, ABM, Dr. J.D. Thanki, Principal, Forestry College, Dr. D.B. Jadeja, Principal, College of Agriculture, Waghai, Dr. Z.P. Patel, Principal, College of Agriculture, Bharuch, Dr. K.G. Patel, Principal, Gujarat Agricultural Biotechnology Institute, Dr. R.M. Patel and Principal, College of Agril. Engineering and Technologies, Dediapada, Er. P.R. Pandey and Conveners of different Sub-committees were welcomed by flowers. In his inaugural speech Director of Research Dr. A.N. Sabalpara told that this year total 44 recommendations for farmers, 21 information for scientific community and 170 new technical programmes are approved in various sub-committees of N.A.U. He told that there is an increase in number of new technical programmes this year in comparison to last year. Loss assessment due to pests and diseases is an urgent need for generating accurate data therefore, plant protection group has taken new technical programmes in this line. Director of Extension Education, Dr. G.R. Patel put emphasis on recommendations for farmers. He told that new technology generated should reach to the farmers by extension personnel. Hon'ble Vice Chancellor, Dr. C.J. Dangaria told that recommendation for farmers should be properly designed in the new format with all details of experiment as well as results obtained. He congratulated the scientists whose recommendation and new technical programmes were approved. He suggested all the conveners to remain prepared in all respects for recommendation and new technical programmes to be presented and discussed in Combined Joint AGRESO.

11.1 CROP IMPROVEMENT

Convener Dr. M.R.Naik presented the report

| No. | Title | Suggestions | Action to be taken by |
|--|--|---|---|
| Information for scientific community | | | |
| 11.1.1 | Screening for resistance to Fusarium wilt in Tomato varieties. | ➤ It should be presented in Plant Protection Sub Committee also | Vegetable Research Station, ACHF, Navsari |
| Four new technical programs were approved in this group. | | | |

11.2 Natural Resource Management (NRM)

Convener Dr. J.G.Patel presented the report

| No. | Title | Suggestions | Action to be taken by |
|--|---|---|---|
| Recommendations for Farming Community | | | |
| 11.2.1 | Study on levels of nitrogen and intra-row spacing on yield of drip irrigated castor (<i>rabi</i>) | ➤ Remove the last sentence of recommendation and instead of "15 DAS" write "15 DAS for obtaining higher yield". ➤ It should be presented in Agril. Engg. Sub Committee for information | Research Scientist, (Soil & Water), SWMRU, NAU, Navsari |
| 11.2.2 | Feasibility of drip irrigation in pigeon pea (<i>rabi</i>) with and without mulch. | ➤ Water saving percentage should be mentioned. | Res. Scientist, (Soil & Water), SWMRU, NAU, Navsari |
| 11.2.3 | Effect of irrigation and fertigation levels on growth and yield of annatto (<i>Bixa orillana</i>) | ➤ Replace word "farmer" with "farmers" ➤ Replace five split "is" with "are" ➤ Replace five split "after" with "before" | Research Scientist, (Soil & Water), SWMRU, NAU, Navsari |
| 11.2.4 | Plant geometry in relation to mechanization in sugarcane (plant and ratoon crop) | ➤ Either kept "higher production" or higher remunerative return ➤ In context to mechanical harvesting write as better suitability for mechanical harvesting. | Main Sugarcane Research Station, NAU, Navsari |
| 11.2.5 | Impact of application of inorganic and organic inputs under rice (<i>Kharif</i>)-rice (summer) crop Sequence on water stable aggregates and aggregates associated organic carbon | ➤ Recast the recommendation on & submit again | Soil Science Department, NAU, Navsari |
| 11.2.6 | Evaluating potential of different cropping systems with and without Tillage, Mulch and Fertilizer level for soil Organic carbon pool in relation to crop yield in soils of south Gujarat. | ➤ Recast the recommendation on & submit again | Soil Science Department, NAU, Navsari |
| 11.2.7 | Response of rice to age of seedling and fertilizer | ➤ Accepted | Regional Rice Research Station, |

| No. | Title | Suggestions | Action to be taken by |
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| | management | | NAU, Vyara |
| 11.2.8 | Intercropping in <i>rabi</i> sorghum var. BP-53 under conserved soil moisture condition | <ul style="list-style-type: none"> ➤ Write variety name in bracket ➤ Instead of heavy rainfall write Zone and AES | Agricultural Research Station, NAU, Tanchha |
| 11.2.9 | Response of <i>rabi</i> hybrid castor GCH-7 (<i>Ricinus communis</i> L.) to rate and source of nitrogen with and without biofertilizer under south Gujarat condition | <ul style="list-style-type: none"> ➤ House has deferred the recommendation & advised to conclude | Department of Agronomy, N.M. College of Agriculture, NAU, Navsari |
| Recommendation for Scientific Community | | | |
| 11.2.10 | Survey of nitrate (NO_3^-) levels and heavy metals in different vegetables available in Navsari market. | <ul style="list-style-type: none"> ➤ Accepted | Dept. of Soil Sci. & Agril. Chem., N.M. C.A., NAU, Navsari |
| 11.2.11 | Preparation of enriched biochar compost from farm waste | <ul style="list-style-type: none"> ➤ Accepted | Department of Soil Science & Agril. Chemistry, N.M.C.A., NAU, Navsari |
| 11.2.12 | Analysis of rainfall variability and trends using 112 years of rainfall data over South Gujarat | <ul style="list-style-type: none"> ➤ Accepted | Agricultural Meteorological Cell, Dept. of Agril. Engineering, N.M. C.A., NAU, Navsari |
| 11.2.13 | Markov Chain and Incomplete Gamma distribution analysis of weekly rainfall for heavy rainfall zone of South Gujarat | <ul style="list-style-type: none"> ➤ Accepted | Agricultural Meteorological Cell, Dept. of Agril. Engineering, N.M. C.A., NAU, Navsari |
| 11.2.14 | Analysis of climatic variability at heavy rainfall zone of South Gujarat | <ul style="list-style-type: none"> ➤ Accepted | Agricultural Meteorological Cell, Dept. of Agril. Engineering, N.M. C.A., NAU, Navsari |
| Recommendations for Farming Community | | | |
| 11.2.15 | Effect of different organic sources on yield and quality of wheat grown on certified organic farm | <ul style="list-style-type: none"> ➤ Instead of "tons" write "ton" | Organic Farming Unit, Dept. of Soil Science & Agril. Chemistry, ACHF, NAU, Navsari |
| 11.2.16 | Response of pigeon pea to different sowing methods and organic sources (cv. Vaishali) | <ul style="list-style-type: none"> ➤ Correct the spelling of bird "percher" & "pheromone trap". ➤ Capital letter for variety name. | Organic Farming Unit, Department of Soil Science & Agril. Chemistry, ACHF, NAU, Navsari |
| 11.2.17 | Evaluation of Different Extractants And Methods For | <ul style="list-style-type: none"> ➤ Accepted | Food Quality Testing Laboratory, N.A.U., |

| No. | Title | Suggestions | Action to be taken |
|---|---|-------------|--|
| | The Determination Of P And K From Soils | | Navsari |
| 11.2.18 | Non Destructive Analysis of Protein, Fibre and Oil in Rice, Pigeonpea and Soybean by NIR analyzer | ➤ Accepted | Food Quality Testing Laboratory, N.A.U., Navsari |
| 11.2.19 | Study On Water Quality Affected By Agnihotra | ➤ Accepted | Food Quality Testing Laboratory, N.A.U., Navsari |
| Twenty eight new technical programs are approved in this group. | | | |

11.3 HORTICULTURE AND AGRO-FORESTRY

Convener Dr. B. R. Parmar presented the report

| No | Title | Suggestions | Action to be taken by |
|--|---|--|--|
| Recommendations for Farming Community | | | |
| A Fruit Science | | | |
| 11.3.1 | Effect of post-shooting bunch spray of fertilizers on banana (<i>Musa paradisiaca</i> L.) cv. Grand Nain | <ul style="list-style-type: none"> ➤ Recast the recommendations as: The farmers of South Gujarat Heavy Rainfall Zone growing banana cv. Grand Nain are advised to spray Sulphate of Potash (SOP) @ 1.5 % on complete emergence of banana bunch and cover the banana bunch with blue polythene sleeve (18 μ) and second spray apply 15 days after first spray to get higher yield. ➤ Make correction in Gujarati version as per English version. | Dept. of Fruit Science ACHF, NAU, Navsari |
| 11.3.2 | Effect of different organics on growth, yield and quality of mango cv. Kesar under high density plantation | <ul style="list-style-type: none"> ➤ Concise the recommendation by removing by last two lines. ➤ Unit of PSB should be changed from 'g' to ml & also mention CFU ➤ Spelling of Azotobacter should be corrected. ➤ Write strain in bracket. | Dept. of Fruit Science ACHF, NAU, Navsari |
| 11.3.3 | Effect of heading back and training on growth, flowering, yield and quality in old orchard of mango cv. Kesar | <ul style="list-style-type: none"> ➤ Instead of maintained write maintain. ➤ Concise the recommendation by remove of last two and half lines. ➤ Fungicide & insecticide name should be mentioned. | Dept. of Fruit Science ACHF, NAU, Navsari |
| 11.3.4 | Varietal trial in mango | ➤ Write overall high production with good economic returns instead of regular and high production with good | Assoc. Res. Sci., AES, Paria, NAU |

| No | Title | Suggestions | Action to be taken by |
|--|---|---|--|
| | | <p>economics return.</p> <ul style="list-style-type: none"> ➤ Full text should be written for TSS. ➤ Deshehari & Himsagar variety should be removed. ➤ Moderate tolerant to pest & disease should be added. ➤ Correct in Gujarati version also. | |
| 11.3.5 | Nutrient requirement under high density planting in banana cv. Grand Naine | <ul style="list-style-type: none"> ➤ For getting higher yield & higher net return should be mentioned at the end of recommendation. ➤ Recast proposal after consultation with statistician. | FRS, Gandevi, NAU |
| 11.3.6 | Fertigation studies in banana cv. Grand Naine | <ul style="list-style-type: none"> ➤ Recast proposal with consultation following committee members. ➤ Dr. Usdadia, Res. Sci. Soil & Water Management. ➤ Dr. H.R. Pandya, Prof & Head Dept of Statistics. | FRS, Gandevi, NAU |
| 11.3.7 | Chemical manipulation for higher yield and quality of banana cv. Grand Naine | <ul style="list-style-type: none"> ➤ Remove word similar climatic condition. | FRS, Gandevi, NAU |
| Recommendation for Scientific Community | | | |
| 11.3.8 | Study of genetic variability in tamarind (<i>Tamarindus indica</i> L.) from South Gujarat. | <ul style="list-style-type: none"> ➤ Write taluka /district only for indicating geographical area. ➤ Write information instead of recommendation. | Vegetable Science , ACHF, NAU, Navsari |
| Recommendations for Farming Community | | | |
| 11.3.9 | Integrated Nutrient Management of Little gourd | <ul style="list-style-type: none"> ➤ Put variety name in bracket ➤ Write farmers instead of peasantry. | Vegetable Science , ACHF, NAU, Navsari |
| 11.3.10 | Effect of different organics on growth, yield and fertility of soil on brinjal cv. <i>Surti Ravaiya</i> (pink) | <ul style="list-style-type: none"> ➤ Replace word "proportion" with "split" and "improves" with "improve". | Vegetable Science , ACHF, NAU, Navsari |
| 11.3.11 | Response of seed sowing on germination, growth, flowering and yield of Spine gourd (<i>Momordica dioica</i> Linn.) | <ul style="list-style-type: none"> ➤ Write farmers instead of peasantry. | Vegetable Science , ACHF, NAU, Navsari |
| 11.3.12 | Performance of greater yam (<i>Dioscorea alata</i> L.) under different stacking systems. | <ul style="list-style-type: none"> ➤ Write farmers instead of peasantry. ➤ Remove BCR and write as benefits. ➤ Remove the word "by this way" and concise the recommendation. | Vegetable Science , ACHF, NAU, Navsari |

| No | Title | Suggestions | Action to be taken by |
|--|--|--|----------------------------------|
| 11.3.13 | Effect of rates of castor cake and Banana Pseudostem sap on yield and quality of organically grown Garlic (<i>Allium sativum</i> L.) cv. GG-2 | <ul style="list-style-type: none"> ➤ Nitrogen % should be mentioned. ➤ Write 2nd point as "Drenching of 2000 lit./ha banana pseudo stem "extracted" sap at 35 and 55 days each". | Dept. of NRM, ACHF, NAU, Navsari |
| 11.3.14 | Study of year round flower production in French marigold and it's growth and development in relation to weather. | <ul style="list-style-type: none"> ➤ Write marigold instead of flower crops and do needful correction in Gujarati also. | Flori. ACHF, NAU, Navsari |
| 11.3.15 | Study of year round flower production in African marigold and it's growth and development in relation to weather. | <ul style="list-style-type: none"> ➤ Write marigold instead of flower crops and do needful correction in Gujarati also. | Flori. ACHF, NAU, Navsari |
| 11.3.16 | Standardization of colour extraction technique from flowers for preparing herbal <i>gula</i> . | <ul style="list-style-type: none"> ➤ Wire "material" instead at "dye". ➤ Correct the abbreviation of hours. ("hrs instead of" h) | PHT, ACHF, NAU, Navsari |
| 11.3.17 | Preparation of Ready to Serve (RTS) beverage from banana pseudostem sap. | <ul style="list-style-type: none"> ➤ Instead of could be store up to six months correct as "can be stored up to six months at ambient temperature". ➤ Present in Ag. Engineering sub committee also. | PHT, ACHF, NAU, Navsari |
| 11.3.18 | Standardization Of Technology For Processing Of Banana Central Core Jam | <ul style="list-style-type: none"> ➤ Remove the word "which". ➤ Write word "increases" instead of increase. | SWMRU, NAU, Navsari |
| 11.3.19 | Optimization Of Level Of Temperature And Kms In Processing Of Banana Puree' From Ripe Banana At Pilot Scale | <ul style="list-style-type: none"> ➤ Remove the word "below". ➤ Prepare flow chart for produce. | SWMRU, NAU, Navsari |
| 11.3.20 | Optimization Of Level Of TSS And Anti-Caking Agent In Spray Solution For Preparing Powder From Ripe Banana At Pilot Scale | <ul style="list-style-type: none"> ➤ Write "information" instead of "recommendation" | SWMRU, NAU, Navsari |
| Recommendation for Scientific Community | | | |
| 11.3.21 | Characterization of pectate lyase in banana | <ul style="list-style-type: none"> ➤ Mention the name of variety. | Biotech, ACHF, NAU |
| 11.3.22 | Effect of nano-micronutrients (Zn and Cu) on physiology and stevioside production in stevia. | <ul style="list-style-type: none"> ➤ Accepted | Biotech, ACHF, NAU |

| No | Title | Suggestions | Action to be taken by |
|---|---|--|---|
| Recommendations for Farming Community | | | |
| 11.3.23 | Residues of some insecticides in/on indian bean pod | ➤ Accepted | Asso. Prof. (Ento)ACHF, NAU, Navsari |
| 11.3.24 | Status of residues if insecticides in/on indian bean after <i>ubadia</i> preparation | ➤ Accepted | Asso. Prof. (Ento)ACHF, NAU, Navsari |
| 11.3.25 | Bioefficacy of some insecticide and neem products against <i>Helicoverpa armigera</i> (Hubner) on Tomato | ➤ Recast the recommendation by using "either/or" word for two insecticides. ➤ Instead of "remained" use word "remains". | Asso. Prof. (Ento)Horti, Polytech, NAU, Navsari |
| 11.3.26 | Screening for Resistance to <i>Fusarium</i> wilt in Tomato varieties | ➤ Accepted | Asso. Prof. (Pl. Patho) ACHF, NAU, Navsari |
| 11.3.27 | Detection of fungal pathogen from forest tree seeds <i>in vitro</i> | ➤ Accepted | Asso. Prof. (Pl. Patho) ACHF, NAU, Navsari |
| 11.3.28 | Growth and yield of Tannia (<i>Xanthosoma sagittifolium</i> L. Schott.) as affected by different pruning intensities of tree crops | ➤ Write word "Alvi" in bracket with "Tannia". ➤ Remove the word 'BCR'. ➤ Correct the spelling of additional. | Agro Forestry, ACHF, NAU, Navsari |
| Recommendation for Scientific Community | | | |
| 11.3.29 | Rapid multiplication of <i>Bambusa vulgaris</i> through <i>in vitro</i> regeneration techniques from juvenile explant | ➤ Use word "recommended" instead of "recomand". | Agro Forestry, ACHF, NAU, Navsari |
| 11.3.30 | Rapid multiplication of <i>Dendrocalamus strictus</i> Nees.. through <i>in vitro</i> regeneration techniques from juvenile explant | ➤ Use word "recommended" instead of "recomand". | Agro Forestry, ACHF, NAU, Navsari |
| 11.3.31 | Collection and evaluation of <i>Mucuna</i> germplasm from South Gujarat for L-DOPA and protein content. | ➤ Accepted | Agro Forestry, ACHF, NAU, Navsari |
| Sixty new technical programmes were approved in this group. | | | |

11.4 PLANT PROTECTION

Convener, Dr. Z. P. Patel presented the report.

AGRIL. ENTOMOLOGY

| No. | Title | Suggestions | Action to be taken by |
|--|---|-------------|--|
| Recommendations for Farming Community | | | |
| 11.4.1 | Residues of some insecticides in/on Indian bean pod | ➤ Accepted | Assoc. Prof.(Ento), Dept. of Ento., ACHF, NAU, Navsari |

| No. | Title | Suggestions | Action to be taken |
|---|---|--|--|
| 11.4.2 | Status of residues of insecticides in/on Indian bean after <i>Ubadia</i> preparation. | ➤ Accepted | Assoc. Prof.(Ento), Dept. of Ento., ACHF, NAU, Navsari |
| 11.4.3 | Bio efficacy of some insecticides and neem products against <i>Helicoverpa armigera</i> (Hubner) on tomato | ➤ Recast the recommendation by using "either/or" word for two insecticides. ➤ Instead of "remained" use word remains. | Assist. Prof. (Ento)., Poly technique (Horti.), NAU., Navsari |
| 11.4.4 | Residues and dissipation of deltamethrin 2.8 EC in okra. | ➤ Remove no. of spray "two" and no. of days "10" & recast the proposal. | FQTL., NAU., Navsari |
| 11.4.5 | Integrated pest management in mango | ➤ Following committee has been formulated for revised schedule of spray. ➤ Dr. Z. P patel, Convener PPSC ➤ Dr. G. G. Radadia, Prof & Head Ento. ➤ Dr. V. A. Solanki, Prof & head PI Patho. ➤ Dr. N. I. Shah, Res. Sci. Paria | AES., NAU, Paria |
| 11.4.6 | Management of banana rust thrips, <i>Chaetanophothrips signipennis</i> . | ➤ Write the site of injection " leaving 1/4 from top" ➤ Correct the doze of recommendation in Gujarati version. | Asstt. Res. Scientist (Ento.), FRS., NAU, Gandevi |
| 11.4.7 | Management of ntuss seed borer <i>Trymalitis ntussusce</i> Meyrick | ➤ Accepted | Asstt. Res. Scientist (Ento.), FRS., NAU, Gandevi |
| Plant Pathology | | | |
| Recommendations for Farming Community | | | |
| 11.4.8 | Management of powdery mildew of Niger | ➤ Accepted | Asstt. Res. Scientist (Patho), Niger Research Station, Vanarasi |
| AGRIL. ENTOMOLOGY | | | |
| Recommendations for Scientific community | | | |
| 11.4.9 | Survey of natural enemies and occurrence of indigenous egg parasitoid, <i>Trichogramma</i> spp. Using <i>Corcyra</i> egg cards in different vegetable crops | ➤ Mention the percentage/ data of <i>Trichogramma</i> spp. in different crops. | Prof. & Head, Dept. Ento., NMCA., Navsari |
| 11.4.10 | Screening of carnation cultivars for the resistance to <i>Tetranychus urticae</i> Koch. | ➤ Recast the recommendation with maintaining the order from higher, moderate & susceptible. | Prof. & Head, Dept. of Ento., NMCA., Navsari |
| 11.4.11 | Seasonal incidence of spider mite <i>Tetranychus urticae</i> (Koch.) (Tetranychidae: acari) | ➤ Accepted | Prof. & Head, Dept. of Ento., NMCA., Navsari |

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| | infesting carnation under polyhouse condition. | | |
| 11.4.12 | To test out feasibility of mass rearing of <i>Chrysoperla zastrowi sillemi</i> (Esben- Petersen) under laboratory conditions. | ➤ Accepted | Prof. & Head, Dept. Of Ento., NMCA., Navsari |
| 11.4.13 | Residue and dissipation pattern of bifenthrin, fipronil, chlorpyrifos and imidacloprid in clayey and sandy loam soils and their downward movement and leaching potential | Accepted | Asstt. Prof.(Pesticide Residue), FQTL, Navsari |
| 11.4.14 | Screening of sugarcane varieties for early shoot borer resistance | ➤ Replace the word "against" with "to". ➤ It should be presented in Animal Production Sub committee also. | Asstt. Res.Sci.(Ento), Main Sugarcane Research Station, Navsari. |
| 11.4.15 | Screening of sugarcane varieties for scale insect resistance | ➤ Replace the word "against" with "to". ➤ It should be presented in Animal Production Sub committee also. | Asstt. Res.Sci.(Ento), Main Sugarcane Research Station, Navsari |

PLANT PATHOLOGY

| Recommendations for Scientific community | | | |
|--|---|---|--|
| 11.4.16 | Screening for Resistance to <i>Fusarium</i> wilt in Tomato varieties | ➤ Write word "genotypes" instead of "genotype" ➤ Replace the word "against" with "to" | Assoc. Prof.(Pl. Path), Dept. of Pl. Pathology, ACHF, NAU., Navsari |
| 11.4.17 | Detection of fungal pathogen from forest tree seeds <i>in vitro</i> . | ➤ Accepted | Assoc. Prof.(Pl. Path), Dept. of Pl. Pathology, ACHF, NAU., Navsari |
| 11.4.18 | <i>In vitro</i> efficacy of isolated probiotic organism | ➤ Replace word "recommended" with "informed". ➤ It should be presented in Animal Production Sub committee also. | Assoc. Prof.(Pesticide Residue), FQTL, Navsari. |
| 11.4.19 | Screening of sugarcane varieties for red rot resistance | ➤ Sugarcane variety 94008 and 99004 should be removed. ➤ This scientific information should be presented in crop improvement sub committee also. | Asstt. Res. Sci.(Pl. Path), Main Sugarcane Research Station, Navsari |
| 11.4.20 | Screening of Sugarcane varieties for Smut resistance | ➤ Remove sugarcane variety Co 68006. | Asstt. Res. Sci.(Pl. Path), Main Sugarcane Research Station, Navsari |
| 11.4.21 | Studies on mango malformation | ➤ Write the percentage/data of mango malformation | Assoc. Prof.(Pl. Path), AES, Paria |
| 11.4.22 | Bio-efficacy of fungicides against sorghum ergot | ➤ Accepted | Asstt. Res. Sci.(Pl. Path), MSRS, Surat |
| 11.4.23 | Bio-efficacy of fungicides against sorghum grain | ➤ Accepted | Asstt. Res. Sci.(Pl. Path), MSRS, Surat |

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| Thirty one new technical programs were approved in this group. | | | |

10.5 AGRICULTURAL ENGINEERING

Convener Er. N.M.Shah presented the report.

General Suggestion: New technical programmes and recommendations related to horticultural crops should be presented in Horticulture Sub-committee. Consult with Dr. B.N. Patel, ADR and Dr. N.L. Patel, Dean (Horticulture) for New Experiment No. 6

| No. | Title | Suggestions | Action to be taken by |
|--|--|--|--|
| Recommendation for all users | | | |
| 11.5.1. | Preparation of ready to serve (RTS) beverage from banana pseudostem sap | ➤ Accepted | I/c, CE on PHT, Navsari |
| Recommendations for Farming Community | | | |
| 11.5.2 | Study of effect of drainage on banana production in South Gujarat | ➤ Correct the short form of "centimeter" ➤ Write yield attributing characters also. | I/c Prof. And Head, Dept. Of Agril. Engg., NMCA, Navsari |
| 11.5.3 | Effect of laser levelling on crop water requirement and growth of castor crop | ➤ Recast the proposal irrespective of methodology; recommend for longitudinal slope. ➤ Present the recommendation in NRM subcommittee also. | I/c Prof. And Head, Dept. Of Agril. Engg., NMCA, Navsari |
| 11.5.4 | study on levels of nitrogen and intra-row spacing on yield of drip irrigated castor (Rabi) | ➤ Accepted | Research Scientist, SWMRU, Navsari |
| Recommendation for manufacturer | | | |
| 11.5.5 | Design, development and evaluation of biomass based cook stove | ➤ Recast the proposal using dry woody branches ➤ Keep university name only for recommendation | Dean, CAET Dediapada |
| Recommendation for All Users | | | |
| 11.5.6 | Development and evaluation of low cost solar still | ➤ Keep university name only for recommendation | Dean, CAET Dediapada |
| Ten new technical programs were approved in this group | | | |

10.6 BASIC SCIENCE

Convener Dr. R. M Patel presented the report

| No. | Title | Suggestions | Action to be taken by |
|---|--|---|---|
| Recommendations for Scientific community | | | |
| 11.6.1 | Screening of cotton genotypes for water stress tolerance | ➤ Recast the recommendation as " cotton entries ... were found drought tolerant". | Main Cotton Research Station, NAU, Surat. |
| 11.6.2 | Characterization of pectate lyase in banana | ➤ Accepted | Dept of Pl. Mol. Bio & Biotech, ACHF, |

| | | | |
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| | | | NAU |
| 11.6.3 | Effect of nono-micronutrients (Zn and Cu) on physiology and stevioside production in stevia. | ➤ Accepted | Dept of Pl. Mol. Bio & Biotech, ACHF, NAU |
| Nine new technical programs were approved in this group | | | |

10.7 SOCIAL SCIENCE

Convener Dr. Narendra Singh presented the report

General Suggestion: Concerned animal related research and recommendations should be presented in Animal Health and Animal Production Group.

| No. | Title | Suggestions | Action to be taken by |
|---|---|---|--|
| 11.7.1 | Working Behavior of Migrant Labors in Agriculture in South Gujarat | ➤ Accepted | Assoc. Prof. & Head, Deptt. Of Ext. Edu., VCVS & AH |
| Recommendations for Farming Community | | | |
| 11.7.2 | Migrant Labours are advised to educate themselves and acquire skills regarding agricultural operations so as to enable them in getting prescribed wages which will help in upliftment of their socio-economic status. | ➤ Accepted | Assoc. Prof. & Head, Deptt. Of Ext. Edu., VCVS & AH |
| Recommendations for Policy Makers | | | |
| 11.7.3 | Economics and Marketing of Goat in South Gujarat | ➤ Accepted | Associate Professor, Agril. Eco., ACHF, NAU, Navsari |
| Recommendations for Farming Community | | | |
| 11.7.4 | Economics and Marketing of Goat in South Gujarat | ➤ It should be presented in Animal production subcommittee | Associate Professor, Agril. Eco., ACHF, NAU, Navsari |
| Recommendations for Scientific community | | | |
| 11.7.5 | Optimum plot size in banana | ➤ Write variety name in bracket | Associate Professor (Ag. Stat.), ACHF, NAU, Navsari |
| 11.7.6 | Uniformity trial in rainfed Pigeon Pea | ➤ Write variety name in bracket | Assoc. Prof. (Ag. Stat.), CoA, NAU, Bharuch |
| Recommendations for Farming Community | | | |
| 11.7.7 | Data mining approach for improvement in co-operative operations: A case of Amalsad co-operative with special reference to Sapota value chain | Recast the recommendations as :“From the study carried out in Cooperative society it is found that price of sapota fruits are maximum during December and January”. | Dean, AABMI, NAU, Navsari |

10.8 ANIMAL HEALTH

Convener Dr. J.N.Mistry presented the report

| No. | Title | Suggestions | Action to be taken by |
|--|---|-------------|-----------------------------------|
| Recommendations for Farming Community | | | |
| 10.8.1 | Effect of polyherbal ecobolic, minerals and | ➤ Accepted | Department Of Veterinary Medicine |

| | | | |
|---|---|---|--|
| | vitamins supplementation as a prophylactic treatment regimen (PTR) at time of calving on reproductive performance in Surti buffaloes. | | NAU, Navsari |
| Recommendations for Scientific Community | | | |
| 10.8.2 | Eco-friendly plastination technology for preservation of biological specimens | ➤ Accepted | Department of Veterinary Anatomy, NAU, Navsari |
| 10.8.3 | 1) Studies on Pharmacokinetics and Pharmacodynamic relationship of Cefquinome in Cow Calves 2) Studies on Pharmacokinetics and Pharmacodynamic relationship of Cefquinome in Goats | ➤ Instead of "concluded" put "recommended" ➤ Put Pharmacokinetics first option ➤ Put Pharmacodynamic second option. | Department of Veterinary Pharmacology & Toxicology, NAU, Navsari |
| 10.8.4 | Evaluation of gene specific primer sets in the molecular detection of <i>Anaplasma</i> organism in bovine. | ➤ Accepted | Department of Veterinary Parasitology, NAU, Navsari |
| 10.8.5 | Ultrasonography, diagnosis and surgical management of abdominal disorders in bovines. | ➤ Accepted | Department of Veterinary Surgery & Radiology, NAU, Navsari |
| 10.8.6 | Ultrasonography, diagnosis and surgical management of abdominal disorders in bovines. | ➤ Accepted | Department of Veterinary Surgery & Radiology, NAU, Navsari |
| Seven new technical programs were approved | | | |

11.9 ANIMAL PRODUCTION

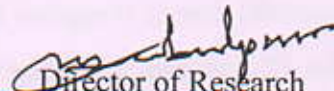
Convener Dr. V.B.Kharadi presented the report

| No. | Title | Suggestions | Action to be taken by |
|--|---|-------------|---------------------------------------|
| Recommendations for Farming Community | | | |
| 11.9.1 | Study on banana shrimp (<i>F. Merguensis</i>) growth under different water salinity levels | ➤ Accepted | Head, Department of Fisheries Science |
| 11.9.2 | <i>In vitro</i> evaluation of sugarcane bagasse treated with different level of urea and moisture relationship of Cefquinome in Goats | ➤ Accepted | Head, Department of Animal Nutrition |
| 11.9.3 | Evaluation of phytogenic feed additive supplementation on growth performance, nutrient utilization, anti-oxidants and | ➤ Accepted | Head, Department of Animal Nutrition |

| | | | |
|---|---|------------|--------------------------------------|
| | health status of Surti kids | | |
| | Recommendations for Scientific community | | |
| 11.9.4 | <i>In vitro</i> evaluation of sugarcane bagasse treated with different level of urea and moisture | ➤ Accepted | Head, Department of Animal Nutrition |
| 11.9.5 | Evaluation of phytogenic feed additive supplementation on growth performance, nutrient utilization, anti-oxidants and health status of Surti kids | ➤ Accepted | Head, Department of Animal Nutrition |
| Eight new technical programmes were approved in this group. | | | |

At the end, Associate Director of Research, Dr. S.R. Chaudhary expressed vote of thanks to Hon'ble Vice Chancellor, Dr. C.J. Dangaria for his valuable suggestions throughout Joint AGRESCO meeting. He expressed thanks to Director of Research, Dr. A.N. Sabalpara, Director of Extension Education, Dr. G.R. Patel, Dean, Agriculture, Dr. M.K. Arvadia, Dean, Horticulture, Dr. N.L. Patel, Dean, Veterinary, Dr. N.H. Kelawala, Dean, ABM, Dr. J.D. Thanki, Principal, Forestry College, Dr. D.B. Jadeja, Principal, College of Agriculture, Waghai, Dr. Z.P. Patel, Principal, Principal, College of Agriculture, Bharuch, Dr. K.G. Patel, Principal, Gujarat Agricultural Biotechnology Institute, Dr. R.M. Patel and Principal, CAET, NAU, Dediapada, Er. P.R. Pandey for remain present in the meeting. He also expressed thanks to Conveners of different Sub-committees, Professors, Research Scientists and other staff for remaining present in the meeting. He expressed his thanks to the staff of DR office and Rapporteurs for their cooperation to make Joint AGRESCO meeting successful.

Navsari
Date: 15-04-2015


Director of Research
Navsari Agricultural University
Navsari

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Navsari

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Date : 15-04-2015

1. Director of Extension Education, NAU, Navsari
 2. Dean & Principal, NMCA/ACHF/CVSAH/ABM, NAU, Navsari
 3. All Conveners, Agresco sub-committee, NAU, Navsari
 4. All Professors/Research Scientists, NAU, Navsari
- All concerned are requested to take suitable actions.