 <p>NAVSARI AGRICULTURAL UNIVERSITY</p>	<p align="center">Polytechnic in Agriculture Navsari Agricultural University Bharuch Campus, Bharuch-392012 Ph. No.-02642-246152</p>	
<p>Dr.J.G.Patel, Principal</p>	<p>Email:-agripoly@nau.in</p>	<p>Mo.09725001518</p>
<p>No.NAU/COAB/AGRESCO/NRM/ 1496/2015</p>		<p>Date: 24 /03/2015</p>

To
All the Member
NRM Agresco Subcommittee
Navsari Agricultural University

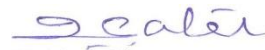
Please find attached proceedings of 11th Natural Resource Management Agresco Sub-committee meeting held during 16th-17th March, 2015 at Navsari.

All the members are requested to go through suggestions made in the meeting and implement the same accordingly.

Members, whose recommendations and new technical programmes are accepted, are requested to incorporate all the suggestions of Sub-committee meeting as well as Joint Agresco meeting and submit two hard copies and soft copy of corrected recommendations and new technical programmes and their power point presentation.

All the compilations and bound volume report of NRM Sub-committee of NAU is to be prepared by this office in time. Hence, it is requested to submit the recommendations and new technical programmes as mentioned above latest by 27/03/2015.

Thanking you,



(J. G. Patel)
Convener
NRM Agresco Subcommittee

PROCEEDING

11th AGRESKO SUB-COMMITTEE on NRM
Navsari Agricultural University, Navsri 396450
(16th and 17th March, 2015)

11th meet of AGRESKO SUB-COMMITTEE on NRM, Navsari Agricultural University was organized at Seminar Hall, N.M. College of Agriculture, Navsari during 16th and 17th March, 2015. On this precious occasion, Hon. Vice-Chancellor, Dr. C.J. Dangaria, chaired the inaugural session. Dr. A.N. Sabalpara, Director of Research & Dean-PGS and Dr. M.K. Arvadia, Principal & Dean (Agriculture) also graced the sub-committee meet. Dr. R.R. Kaswala, Retd. Professor and Member, Board of Management also attended the meeting in technical programme session and inspired the members. Dr.C.L. Patel, Ex-Principal & Dean (Agriculture) was the special invitee to guide and encourage the young scientists of the university.

At the beginning, Convener Dr. J.G. Patel, welcomed Chairman of the inaugural function Dr. C.J. Dangaria Sir, Hon'ble Vice Chancellor, Navsari Agricultural University, Navsari. He extended warm welcomed to the Directors of Research, Deans of various faculties, Invitees, Associate Directors of Research, Senior Scientists/Professors and Young scientists. He briefly highlighted the background, mandates and summary of the research activities of NRM Group and appreciate house for come with more recommendations and new technical programmes. Also address the house regarding the role of NRM group in agriculture and deliberate the future thrust to sustain the productivity with changing demands of future generation. Frontier areas of bio technology, mechanization, biofertilizers, climate resilient research needs to be strengthened.

While giving the opening remarks, Dr. M.K. Arvadia, Dean, Faculty of Agriculture, NMCA, NAU, Navsari told about the natural resources and their degradation, how the pressure is mounting on it. He emphasized on climate change and discussed about the future needs of ever increasing population of country; it is necessary to increase productivity by application of latest technologies.

Dr. A.N. Sabalpara, Director of Research in his address stressed on soil fertility, deficiencies of micronutrients developed since two decade by mining of nutrients especially organic carbon, micronutrients. For soil health is concerned, new mapping is required for nutrients availability, microbial status, soil degradation etc and prescribe the GAP (Good Agricultural Practices) accordingly. He emphasized multidisciplinary research work is required by considering total factor productivity. He also stressed on increasing input use efficiency by different techniques *viz.*, SRI, also develop low input technology for sugarcane. Adoption of organic farming should be amalgamated with

value addition of food grains. Develop region specific cropping and integrated farming system is the prime requirement of research. He also focused on increased per hectare productivity. He also has drawn attention to house to come with new technical programmes based on natural inputs, microbial inputs, SAP, bio compost, vermin compost, green manuring in NRM. Also focused on waste management, suggest to developed efficient waste recycling technologies. He motivated to centers for conducting new technical programmes.

Dr. R.R. Kaswala, Retd. Professor of SSAC start with “Manford” story about farmers suicide. Also told that formulate the research programme by considering the farmers as a center point. He also motivates the young scientist for innovative research.

In his inaugural address, Hon. Vice-Chancellor, Dr. C.J. dangaria, called upon the scientists to develop ways that can address the climate change, unseasonal rainfall and weather abnormalities. Also focused on scenario of natural resources depletion. He stressed on to develop various technologies for increasing input use efficiency and soil health management. Work is required to minimize cost of cultivation. Attention should be given on problems faced by farmers, work to solve them. Also in organic farming focus should be given on management of the organic waste and suggested to use precision farming for future research. He point out that the performance of NRM is depends on all of us, suggested to the all scientists to work excellently and creatively. Finally he appreciates all for past work done in favour of NRM and hopeful for better future of agriculture.

During inaugural session, Dr. C.L. Patel, Ex-principal & Dean (Agriculture) delivered a thought provoking lecture on “Soil-Test Value and Phosphorus & Potassium Fertilizer Use by Sugarcane Farmers - A Case Study of Co-Operative Sugar Factories - Bardoli, Gandevi and Narmada” to sensitize the members about this important issues. He intertwined the topic in his lecture and expressed his views and ideas duly supported by available data and evidences.

Dr. J. G. Patel, Convener presented the action taken report on proceedings of last year which was accepted by the house.

Dr. D.D. Patel, Associate Professor proposed vote of thanks at the end of the inaugural session.

Regular meeting commenced with the presentation of recommendation proposals.

Abstract of recommendations, ongoing and new technical programme

1. Recommendations for farming community	-	08
2. Information for scientific community	-	08
3. Concluded experiments	-	03
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6. Ongoing Experiments	-	143

Action Taken Report of the Xth NRM AGRESCO sub-committee meeting

Chairman : Dr. C. J. Dangaria, Honb. Vice Chancellor
Co- Chairman : 1. Dr. A. N. Sabalpara, Director of Research
2. Dr. C. L. Patel, Retird. Dean, Agriculture
Rapporteurs : 1. Dr. H. M. Viridia, Associate Professor (Agron.)
2. Dr. Sonal Tripathi, Associate Professor (Agri. chem& soil sci.)

Date : 16-03-2015

The action taken report was presented by Convener Dr. J. G. Patel. The house approved the same with following suggestions.

1. Item no. 9 clarify the date of planting. Is it same?
2. Post Graduate students' experiment should not approved as new technical programme in this house, as it is approved in BoS and this is only for requirement of study. If require to go for recommendation then after completion of students study same/modified technical programme should be put for approval to this house along with result of earlier study.
3. It is suggested to give detail of action taken in each items.

Regular meeting commenced with the presentation of recommendation proposals.

Session I

Recommendation for scientific and farmers community

Chairman : Dr. R. R. Kasawala, Member, BoM, & Retird Professor

Co-Chairman : Dr. C. L. Patel, Retird. Dean, Agriculture

Rapporteurs: 1. Dr. H. M. Virdia, Associate Professor (Agron.)

2. Dr. Sonal Tripathi, Associate Professor(Agri. chem& soil sci.)

Date : 16-03-2014

Sr.No	Title	Presented by	Suggestions/comments	Remarks
Soil and Water Management Research Unit, NAU, Navsari				
11.1.1	Study on levels of nitrogen and intra-row spacing on yield of drip irrigated castor (<i>rabi</i>)	Er. N. G. Savani, Asstt. Research Scientist	<ul style="list-style-type: none"> Conclude on the basis of Y& N level interaction comparison Supporting data of pest & Diseases observations 	Approved
11.1.2	Feasibility of drip irrigation in pigeon pea (<i>rabi</i>) with and without mulch	Er. N. G. Savani, Asstt. Research Scientist	<ul style="list-style-type: none"> Include variety name in recommendation Net income to be corrected in report of Rs.51970 in place of Rs.49530 	Approved
11.1.3	Effect of irrigation and fertigation levels on growth and yield of annatto (<i>Bixa orillana</i>)	Er. N. G. Savani, Asstt. Research Scientist	<ul style="list-style-type: none"> Data should be analyzed by simple RBD Recast the recommendation include quality data if possible 	Approved
Main Sugarcane Research Station, NAU, Navsari				
11.1.4	Plant geometry in relation to mechanization in sugarcane (plant and ratoon crop)	Dr. Darpana Patel Agril. Officer	<ul style="list-style-type: none"> Data to be pooled for plant & ratoon separately Mechanization word to be removed from recommendation Data for no. of millable cane to be kept 	Approved

			<p>in full figures</p> <ul style="list-style-type: none"> • Average data on CCS% remove 	
Soil Science Department, NAU, Navsari				
11.1.5	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	Dr. A. Das, Research Scientist	<ul style="list-style-type: none"> • Recommendation for scientific community only • Mention "midterm evaluation of long-term experiment status of soil" (after 11years to 15 years) • Delete 'to combat/minimize green house effect/ global warming' word from recommendation • conclusion will be based on last year soil quality data instead of pooled data 	Approved
11.1.6	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.	Dr. A. Das, Research Scientist	<ul style="list-style-type: none"> • Recommendation for scientific community only • Mention "midterm evaluation of long-term experiment status of soil" • Delete 'for higher micro aggregate stored organic carbon to combat/minimize green house effect/global warming' word from recommendation • conclusion will be based on last year soil • Recommendation should be recast with tillage detail (Puddling or no puddling) 	Approved
Regional Rice Research Station, Vyara				
11.1.7	Response of rice to age of seedling and fertilizer management	Dr. V.P. Patel, I/C Asso. Research Scientist	<ul style="list-style-type: none"> • Not Accepted • Concluded 	Concluded
Agricultural Research Station, NAU, Tanchha				

11.1.8	Intercropping in <i>rabi</i> sorghum var. Bp-53 under conserved soil moisture condition	Dr. H.M. Patel, Assist. Res. Sci.,	<ul style="list-style-type: none"> Recast the recommendation 	Approved
Department of Agronomy, N.M. College of Agriculture, NAU, Navsari				
11.1.9	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	Dr. R.B.Ardeshna, Assoc. Professor	<ul style="list-style-type: none"> Recast the recommendation for farming community for effect of biofertilizer on castor hybrid-GCH-7 Consider second year soil analysis data for conclusion of effect of biofertilizer 	Approved
Department of Soil Science & Agril. Chemistry, N.M. College of Agriculture, NAU, Navsari				
11.1.10	Survey of nitrate (NO ₃ ⁻) levels and heavy metals in different vegetables available in Navsari market.	Dr. Sonal Tripathi, Assoc. Professor	<ul style="list-style-type: none"> Recast recommendation and approved for scientific community only 	Approved
11.1.11	Preparation of enriched biochar compost from farm waste	Dr. Sonal Tripathi, Assoc. Professor	<ul style="list-style-type: none"> Concluded 	Result of feeler trial
Agricultural Meteorological Cell, Department of Agricultural Engineering, N.M. College of Agriculture, NAU, Navsari				
11.1.12	Analysis of rainfall variability and trends using 112 years of rainfall data over South Gujarat	Dr. Neeraj Kumar, Assistant Professor (Agril. Meteorology),	<ul style="list-style-type: none"> Recommendation for scientific community only Specify specific area instead of South Gujarat Include name of associate 	Approved
11.1.13	Markov Chain and Incomplete Gamma distribution analysis of weekly rainfall for heavy rainfall zone of South Gujarat	Dr. Neeraj Kumar, Assistant Professor (Agril. Meteorology)	<ul style="list-style-type: none"> Recommendation for scientific community only Modify with including month and week along with standard week and it should be to the point and precise Remove table no. from recommendation Include name of associate 	Approved
11.1.14	Analysis of climatic variability at heavy	Dr. Neeraj	<ul style="list-style-type: none"> Recommendation for scientific 	Approved

	rainfall zone of South Gujarat	Kumar, Assistant Professor (Agril. Meteorology)	community only • Include name of associate	
Organic Farming Unit, Department of Soil Science & Agril. Chemistry, ASPEE College of Horticulture & Forestry, NAU, Navsari				
11.1.15	Effect of different organic sources on yield and quality of wheat grown on certified organic farm	Dr. A.R. Kaswala, Associate Professor	<ul style="list-style-type: none"> • Include the content of N of Biocompost, Vermicompost/castor cake in recommendation or recommendation modify including application of organics based on nutrient contents. • Check the cost of cultivation 	Approved
11.1.16	Response of pigeon pea to different sowing methods and organic sources (cv. Vaishali)	Dr. A.R. Kaswala, Associate Professor	<ul style="list-style-type: none"> • Include content of organic inputs • Recast the recommendation including application of organics based on nutrient contents 	Approved
Food Quality Testing Laboratory, Navsari Agricultural University, Navsari				
11.1.17	Evaluation of Different Extractants And Methods For The Determination Of P And K From Soils	Dr. K.G. Patel, In-Charge FQTL	Scientist community	Approved
11.1.18	Non Destructive Analysis of Protein, Fibre and Oil in Rice, Pigeonpea and Soybean by NIR analyzer	Dr. K.G. Patel, In-Charge FQTL	Scientist community	Approved
11.1.19	Study On Water Quality Affected By Agnihotra	Dr. K.G. Patel, In-Charge FQTL	Concluded	Feeler trial concluded

Session II

NEW TECHNICAL PROGRAMME

Chairman : Dr. C. L. Patel, Retird. Dean, Agriculture

Co-Chairman : Dr. R. R. Kasawala, Member, BoM, & Retird Professor (SSAC)

Rapporteurs: 1. Dr. L. J. Desai, Associate Professor (Agron.)

2. Dr. K. G. Patel Associate Professor (SSAC)

Date:17-03-2015

Sr.No	Title of New Technical Programme	Presented by	Suggestions
Soil and Water Management Research Unit, NAU, Navsari			
11.2.1	Response of drip irrigation, levels of nitrogen and foliar application of banana pseudostem sap on sweet corn and their residual effect on succeeding summer green gram under South Gujarat conditions	Dr. V. P. Usdadia, I/c Res. Sci.,	<ul style="list-style-type: none">• PG student experiment, Hence not considered
11.2.2	Effect of precision application of planting material, irrigation and fertilizer in drip irrigated sugarcane	Dr. J.M. Patel, I/c Asso. Res. Sci.,	<ul style="list-style-type: none">• Correct the experimental title and objectives as per presentation• Delete the “3 eye budded “treatment and replace it with “sprouted sets seedling (45 cm spacing”.
11.2.3	Effect of land configuration and bio-organic on chickpea (<i>Cicerarietinum L.</i>) under coastal salt affected soils	Dr. V.R. Naik, Asst. Res. Sci.,	<ul style="list-style-type: none">• PG student experiment, Hence not considered
11.2.4	Effect of soil conditioner, integrated nutrient management and land configuration on growth yield and quality of carrot.	Dr. V. R. Naik, Asstt. Res. Sci	<ul style="list-style-type: none">• Delete the “Flat bed method” treatment• Replace the word root with carrot.• Observe carrot volume instead of root density.• If possible, estimate vitamin B-12• In treatment replace word “Gypsum” with “Soil conditioner”.• Replace the treatment 75 % RDF+10t BC with 75%

			<p>RDF+25%N BC in F₂ and F₃</p> <ul style="list-style-type: none"> • Mention the rate of bio fertilizer application in treatment F₃
11.2.5	Production potential of hybrid rice under different fertility levels in South Gujarat condition	Prof. Y. P. Lad, Asstt. Res. Sci.	<ul style="list-style-type: none"> • Remove the treatment of micronutrients and apply common dose of ZnSO₄ and FeSO₄ • Take three hybrids in treatment. • Increase in plot size, • Recast the title and objectives according to change in treatments. • Add observations of Uptake of nutrients, Pests and Diseases and Economics.
11.2.6	Effect of levels and sources of silicon on yield and quality of summer paddy	Prof. S. L. Pawar, Asstt. Res. Sci.	<ul style="list-style-type: none"> • In addition to these treatments, add two more treatments of foliar application of silicon • Add observations of nutrients uptake, soil nutrient status after harvest of crop and pests and diseases.
Regional Sugarcane Research Station, Navsari			
11.2.7	Use of plant growth regulators(PGRs) for enhanced yield and quality of sugarcane	Dr. Gajjar, Asstt. Res. Sci.	<ul style="list-style-type: none"> • Give the plot size • Keep six line in which two lines for destructive observations • Add observation of per cent arrowing
Pulses and Castor Research Station, Navsari			
11.2.8	Agronomic requirement of new promising hybrid of castor(NCH-1)	Dr. V.M. Patel, Asstt. Res. Sci. (Agron.)	<ul style="list-style-type: none"> • Correct the season of experiment <i>i.e</i> Rabi • Design should be FRBD concept • Correct the spacing in treatment: 120 X 60 cm, 120 X 90 cm, 150 X 60 cm, 150 X 90 cm • Add observation; Sex ratio, Insect pests and diseases incidence • Soil analysis for N, before and after harvest of crop.

Niger Research Station ,NAU, Vanarasi			
11.2.9	Optimization of niger production under resource constraints.		<ul style="list-style-type: none"> • Give the full form of treatment abbreviation • Give details of cultural practices
Regional Rice Research Station, Vyara			
11.2.10	Evaluation of Method and levels of irrigation in summer groundnut	Dr.Vipul Patel, I/c, Asso. Res. Sci.	<ul style="list-style-type: none"> • Design should be RBD instead of FRBD • Mention depth of irrigation in sprinkler treatment • Depth of irrigation should be 60 mm instead of 50 mm • Use “ IW/CPE “ word instead of “PEF” in irrigation treatment • Add observation of per cent pod recovery and insects- pest and diseases incidence
Agricultural Experimental Station, Paria			
11.2.11	Effect of time of irrigation on flowering and yield of mango. (Kesar)	Dr. Navneet Kumar, Asst. Res. Sci.	<ul style="list-style-type: none"> • Use ring method of irrigation instead of flood irrigation • Add second control of recommended practices of irrigation • Mention age of tree and numbers of tree in treatment details, it should be minimum 2 tree. • Add observations : <ol style="list-style-type: none"> 1. Quality parameters (TSS, shelf life, acidity<i>etc</i>) 2. Fruit retention at harvest 3. Pest and diseases incidence
Main Cotton Research Station, Surat			
11.2.12	Canopy management under high density planting system of cotton in irrigated condition.	DR. C.K.Patel Assoc. Res. Scientist	<ul style="list-style-type: none"> • Add control as water spray in the treatment • Recast the title of experiment by including word” Mepiquate chloride” • Add observations of Leaf area Index
11.2.13	Exploiting the potential of sub soiling in Bt cotton cultivation	DR. C.K.Patel Assoc. Res. Sci.	<ul style="list-style-type: none"> • Design should be non-replicated large plot size experiment. • Mention the depth of subsoiling <i>i.e</i> 45 cm • Add observation of Initial and final depth wise moisture status

			<ul style="list-style-type: none"> • For BD measurement go up to the depth of 30-45 cm if possible • Delete the observations of NPK status
Dept. of Agronomy, NMCA, Navsari			
11.2.14	Response of fodder sorghum (<i>Sorghum bicolor</i> L. Moench) varieties to bio fertilizer and nitrogen levels	Dr. R.M. Pankhaniya, Assoc. Prof.	<ul style="list-style-type: none"> • Nitrogen levels in treatment should be 60, 80 and 100 kg/ha • Use <i>Azospirillum</i> instead of <i>Azotobacter</i> in treatment • Apply common dose of P and FYM as per recommendation.
11.2.15	Study on critical periods of crop-weed competition in maize	Dr. H. M. Viridia, Asso. Prof.	<ul style="list-style-type: none"> • Mention the RDF- 120 -60 -0, N:P:K kg/ha • Per cent unfilled cob • Add observations of: <ol style="list-style-type: none"> 1. weed studies periodically 2. Nutrient uptake by weeds
11.2.16	Real time nitrogen management through leaf colour chart in rice cultivars	Dr. N.N.Gudadhe Asst. Prof.	<ul style="list-style-type: none"> • Feeler trial is to be continue • Last one year data should be consider as first year
Dept. of SSAC, NMCA, Navsari			
11.2.17	Assessing soil health status of banana growing area of south Gujarat	Dr. P. V. Mehta Asst. Prof.	<ul style="list-style-type: none"> • Similar experiment was conducted earlier on banana, hence change the experiment accordingly with consultation of SWMRU, NAU, Navsari
Meteorology Dept. ,NMCA, NAU, Navsari			
11.2.18	Application of Mixed Statistical Distributions in Fitting Rainfall Data over Navsari and Bharuch Region	Dr, Neeraj Kumar Asst. Prof.	<ul style="list-style-type: none"> • Approved
Dept. of SSAC, ACHF, Navsari			
11.2.19	Agronomical evaluation of different pigeon pea genotype under organic farming	Dr.Pramod Kumar Dubey, Asst. Prof.	<ul style="list-style-type: none"> • Treatment of organic sources should be 75 and 100% RDN from NADEP compost. • Add observations:

			<ol style="list-style-type: none"> 1. Cooking quality 2. Plant stand at harvest 3. Pests and diseases incidence 4. Correct the net plot size
11.2.20	Agronomical evaluation of promising sugarcane genotypes under organic farming	Dr. A.R. Kaswala, Assoc. Prof.	<ul style="list-style-type: none"> • Apply common dose of 75 %N through NC:VC in equal proportion. • Add two varieties of jiggery in treatment • Reduce replication up to two • Keep spacing of 120 cm. • Add observations: <ol style="list-style-type: none"> 1. Single cane weight 2. No of millable cane 3. Total plant height and millable cane height
College of Agriculture, NAU, Waghai			
11.2.21	Effect of different systems of nutrient management in nagli	Dr. R. R. Pisal Asst.Prof.	<ul style="list-style-type: none"> • Mention RDF of Nagli • Delete treatment M1 • Specify the crop residue and use forest leaves as residue if possible • Add observation of Caand Fein grain
College of Agriculture, NAU, Bharuch			
11.2.22	Sustaining Castor Productivity in Relation to Green Manures and Fertility Levels	Dr. T.U.Patel, Asstt. Prof.	<ul style="list-style-type: none"> • Delete the observation of CFU and add microbial biomass carbon estimation • Mention the name of variety • Add observation of Insect pests incidence
11.2.23	Response of pigeon pea to different liquid fertilizers under various fertility levels	Dr. T.U.Patel, Asstt. Professor	<ul style="list-style-type: none"> • Reduce the concentration of Navroji up to 1 % • Increase the concentration of cow urine up to 2 % • Change the treatments 'A' as 'B' and 'B' as 'A'

Cotton Research Station, Bharuch			
11.2.24	Agronomic requirements of pre-release <i>herbaceum</i> variety in respect of plant density and fertilizer requirements under rainfed condition	Shri M.L. Patel, Asst. Prof.	<ul style="list-style-type: none"> • Mention “RDN” not “RDF” • Correct the net plot size by increasing up to 4.8 x 6.3 m • Add observation of total biomass(dry matter) at 50 % boll formation • Add the name of collaborative centre
Agricultural Research Station, NAU, Tanchha			
11.2.25	Effect of foliar fertilization on sorghum under conserved moisture condition	Dr. H.M. Patel, Asst. Res. Sci.	<ul style="list-style-type: none"> • Estimate “Gluten” content if possible • Add observation of earhead length • Replication should be four
11.2.26	Effect of time of irrigation with nutrient management on yield of grain sorghum under <i>Bara</i> track of Gujarat	Dr. H.M. Patel, Asst. Res. Sci.	<ul style="list-style-type: none"> • PG student experiment, Hence not considered
Soil and Water Management, NARP Phase-II, Achhalia			
11.2.27	Studies on irrigation scheduling through drip and nitrogen management in cotton var. G. Cot. Hy-8 (BG II)	Dr. M. R. Thakur, Asst. Res. Sci.,	<ul style="list-style-type: none"> • Reduce the plot size • Add 40 kg/ha P₂O₅, if P levels of soil low. • Add observations: <ol style="list-style-type: none"> 1. Uptake and available NPK in soil 2. Plant stand at harvest
11.2.28	Effect of crop residue incorporation and nutrient management on nutrient economy and soil properties of drilled paddy based cropping systems	Dr. M. R. Thakur, Assist. Res. Sci.,	<ul style="list-style-type: none"> • Record quantity and NPK content of biomass added to soil • Measurement BD from 0-15 cm depth • Analyze the soil for NPK at the end of each sequence
11.2.29	Study of Land Configuration and Irrigation Scheduling on Vegetable Indian Bean (Var.: NPS-1)	Dr. M. R. Thakur, Assist. Res. Sci.,	<ul style="list-style-type: none"> • Record the number and dry weight of root nodules at 60 days instead of root volume. • Consider middle bed in net plot in BBF. • Replace the word “ID” with “TW” in land configuration treatments.

11.2.30	Response of summer sesame to nutrient management and irrigation scheduling	Dr. M. R. Thakur, Assist. Res. Sci.,	<ul style="list-style-type: none"> • Replace the elemental sulphur with Gypsum • Spacing should be 45cm x 10 cm • Soil and plant analysis for NPKS • RDF should be 50-25 NP kg/ha
KVK NAU, Navsari			
11.2.31	Effect of foliar spray of silicon on growth and yield of paddy	Dr. K.A. Shah, SMS	<ul style="list-style-type: none"> • Replication should be 4 • Remove Novel liquid treatment • Plant analysis for NPK and Si

TECHNICAL SESSION - III :

Review on Ongoing Research Programmes

Chairman: Dr. R.R. Kaswala, Retd. Professor, SSAC

Co-Chairman: Dr. M.K. Arvadia, Dean, Faculty of Agriculture

Rapporteurs : Dr. G.G. Patel and Dr. R.B. Ardeshna

Date: 17-03-2015

Chairman/Co-chairman reviewed the status of ongoing research programmes of NRM at each station. Members were also invited to present technical problems faced by them, if any, in conduct of experiments and need for any modification required in ongoing experiments. Scientists/Professors from all the centres/schemes gave brief account of ongoing experiments and progress made. After thorough discussion on points/problems presented by some of the centres, the following decisions were taken.

Centre : Pulses and Castor Research Station, Navsari

11.3.1 Evaluation of drip fertigation on *rabi* castor productivity

Above AICRP experiment has been continue since *rabi* 2013-14 (2 years completed). In view of discontinuation of AICRP in ensuing plan, concerned scientist asked for permission to continue the experiment for third year. The house agreed to continue the experiment for third year.

Centre : Dept. of Agronomy, NMCA, Navsari

11.3.2 Response of soybean to spacing and weed management during *kharif* season

This experiment was proposed and approved in 9th NRM Agresco Sub-committee meeting. In view of failure of the experiment for two times due to poor emergence and severe mortality, scientists concerned asked for permission to discontinue the experiment. The house granted permission for the same.

Centre : Dept. of SSAC, NMCA, Navsari

11.3.3 Evaluation of DRIS approach for assessing nutritional status of banana in south Gujarat

Extensive survey and laboratory analysis based this study was proposed and approved in 9th NRM Agresco Sub-committee meeting. Due to transfer of PI of the study, department asked for permission to discontinue the study. The house decided to continue this important study with existing manpower of the department and help of PI transferred.

Centre : KVK, Dediapada

11.3.4 Response of sorghum varieties to different tillage practices under conserved moisture after *kharif* paddy (drilled)

Due to zero yield in zero tillage treatment and very high CV%, investigator concerned invited suggestions of the house if there is need to modify the treatments. It was decided to show the replicated data to Dr. H.R. Pandya, Professor & Head (Statistics). On the basis of his and senior professors/scientists' advise, final decision to be taken.

Centre : COA, Bharuch

11.3.5 Screening of different promising varieties of pigeonpea against different salinity levels in vertisols

Investigator of the study recorded dry matter yield of varieties under study and reported that there was no seed set. The house suggested to continue this pot culture trial for one more year under late sowing condition omitting most sensitive varieties *viz.*, V₉, V₁₀, V₁₂ and V₁₄ and S₄ salinity level.

Centre : Dept. of NRM, ACHF, Navsari


11.3.6 Effect of different salinity levels or irrigation water on young teak plants

The study to be repeated for second year.

11.3.7 Effect of different salinity levels of irrigation water on clones of *Casurina equisetifolia*

The study to be repeated for second year.

The meeting ended with vote of thanks proposed by Dr. J.G. Patel, Convener, NRM, Navsari Agricultural University, Navsari.


Convener, NRM
NAU, Navsari