

 <p>NAVSARI AGRICULTURAL UNIVERSITY</p>	<p>DEPARTMENT OF AGRONOMY N. M. COLLEGE OF AGRICULTURE NAVSARI AGRICULTURAL UNIVERSITY NAVSARI - 396 450</p>
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No. ACN/Agro/C/NRM/237/2014
Navsari. Dated 6-02-2014

To
All the concerned members
NRM Agresco Sub-committee
Navsari Agricultural University

Sub. : Sending action taken report ...

- Ref. :** 1) This office letter No. ACN/AGRO/NRM/692-766/2013 dated 12-4-2013
2) Proceedings of 9th Combined Joint Agresco meeting dated 7-9-2013 circulated (web) by office of the Director of Research, NAU, Navsari

Sub. : Sending action taken report ...

Please find enclosed the item-wise suggestions made in last NRM Agresco Sub-committee and Combined Joint Agresco meetings pertaining to your Centre/ Department/ Scheme.

Please send action taken report on above within a week.


(J.D.Thanki)
Convener

Encl: A/a

**ACTION TAKEN REPORT ON PROCEEDINGS OF IX NATURAL RESOURCE MANAGEMENT
SUB-COMMITTEE MEETING OF NAU AND COMBINED AGRESKO MEETING OF SAUS**

SN	Title	Suggestions/Comments		Action taken
		Sub-committee meeting of NAU	Combined Agresko meeting of SAUs	
	SWMRU, Navsari			
(1)	Effect of irrigation and sulphur levels on yield of cluster bean under south Gujarat condition	<ul style="list-style-type: none"> • Select S deficient plot • Include EC in soil analysis 	<ul style="list-style-type: none"> • Add observation on no. of pods /plant 	
(2)	Study on combine effect of irrigation, fertigation and mulching levels on fruit yield and quality of water melon	<ul style="list-style-type: none"> • Add observations : Plant population at harvest, pests & diseases incidence, weed study, organic carbon content in soil 	-	
(3)	Comparative study of different sleeving materials in banana	<ul style="list-style-type: none"> • Delete treatment T₆ • Add two more replications • Add observation of days to ripening 	<ul style="list-style-type: none"> • Take up expt. with RBD instead of FRBD in expt. 	
(4)	Evaluating effect of enriched banana pseudostem sap (foliar spray) on <i>hirsutum</i> cotton	<ul style="list-style-type: none"> • Add % sap concentration in C₃, C₄ and C₅ • Delete word “time” in objective part • Mention RDF : 120-00-00 (NPK) • Spray schedule: 2nd Spray at flower opening, 3rd spray at boll formation • Add observations : Sympodial branches/plant, Final plant stand at harvest and pest & disease observations 	<ul style="list-style-type: none"> • RDN should be 120 kg/ha 	
(5)	Effect of rate and frequency of micronutrient application on production of banana under drip irrigation	<ul style="list-style-type: none"> • Select micronutrient deficient plot • Add quality parameter in observations 	-	
(6)	Natural resources characterization in relation to banana growing areas of south Gujarat	<ul style="list-style-type: none"> • Add survey of Navsari taluka • Select banana concentrated area • Sample size according to area base • If data available, add wind direction also • Add sources of water, water quality and event of water stagnation in observations 	-	

	CSSRS, Danti/Umbharat			
(1)	Effect on variety and INM on yield of fodder sugar beet grown on coastal salt affected soils.	<ul style="list-style-type: none"> • Correct the experimental title as per suggested treatments • Take 4 replications • Treatment correction : F₁: 100 % RDN, F₂: 125% RDN, F₃: 150% RDN (P and K common application) • Delete : II in irrigation and V3 in Variety • Add in Observations : Palatability, IV digestibility, NO₃⁻ content in fodder 	<ul style="list-style-type: none"> • Delete the words “by two” from expt. title. 	
(2)	Response of cotton (<i>Bt</i>) hybrids to integrated nutrient management under coastal salt affected soil condition	<ul style="list-style-type: none"> • Add common application of biofertilizer • Replace 10 t/ha FYM with 6 t/ha Biocompost • Add economic in observation part 	-	
(3)	Salt built up and distribution in adjoining areas of aquaculture pond (Feeler trial)	<ul style="list-style-type: none"> • Sampling should be done twice or thrice a year 	-	
	NARP, Navsari			
(1)	Evaluation of rice based crop sequence under aerobic and transplanted method of cultivation in south Gujarat condition	<ul style="list-style-type: none"> • Add Treatments : C₁: Gram PKV-2 variety, C₂: Green gram CO-4 variety, C₃ : Indian Bean (<i>Kadva val</i>) for vegetable purpose • In V₂: Only GNR-3, delete word “Rabi” 	<ul style="list-style-type: none"> • Take up expt. with SPD by allocating combinations of variety and method of planting in main plot 	
	Soil Science, Navsari			
(1)	Effect of land leveling by laser leveler on yield of wheat crop	<ul style="list-style-type: none"> • Take bed size as per suggestions • Modify slope treatments • Design should be Large plot technique 	-	

Pulses and Castor Research Station, Navsari			
(1)	Spacing and fertilizer requirement of promising Indian bean genotype NPS-1	<ul style="list-style-type: none"> • Design : SPD with Main plot : spacing and Subplot: fertilizer treatments • Mention RDF (20:40:00 NPK kg/ha) • Delete grain yield from the title • Delete treatments Five and Six • Modify the treatments in consultation with the committee (Dr. R.G.Patil, Dr. M.K.Arvalia and Dr. J.D.Thanki) with addition of with and without biofertilizer 	-
(2)	Date of sowing, spacing and nutrient management for pigeon pea cultivar GT-102 during <i>rabi</i> season	<ul style="list-style-type: none"> • Modify the trial in consultation with Professor Agronomy and Ag. Chem & Soil Science, Navsari 	<ul style="list-style-type: none"> • In treatment O₂ mention FYM rate <i>i.e.</i> 5 t/ha
Hill Millet Research Station, Waghai			
(1)	Response of different varieties of finger millet (Nagli) to nitrogen levels with and without bio-fertilizer under rain fed condition	<ul style="list-style-type: none"> • Mention the collaboration of Ag. Chem & Soil Science, NMCA, Navsari • Mention RDF: 40: 20: 00 NPK kg/ha • Change in treatments : N₁: RDF, N₂: RDF + 5 t/ha VC, N₃: RDF + 5 t/ha VC + 4 kg/ha Biofertilizer • Variety : V₁ & V₂ • Arrange demonstration after 1st year results • Delete “with and without” words from the title 	<ul style="list-style-type: none"> • Revise N levels as under <ul style="list-style-type: none"> ○ N1: RDF ○ N2: 75 % RDF + VC 2t/ha ○ N3: 75 % RDF + VC 1 t/ha + Biofertilizer ○ N4: VC 2t/ha + Biofertilizer
(2)	Response of little millet (Vari) variety GV-2 to nitrogen levels with and without bio-fertilizer under rain fed condition	<ul style="list-style-type: none"> • Modify the experimental title • Treat: N levels: 0, 20, 40, 60 & 80 kg/ha P levels: 0, 20 & 40 kg/ha • Common application of FYM and Biofertilizers for all treatments • Analyze the experimental data in consultation with Statistics Department • Mention the collaboration of Ag. Chem & Soil Science, NMCA, Navsari 	-

(3)	Studies on different package of practices in finger millet (ragi) under rain fed condition	<ul style="list-style-type: none"> • Mention the collaboration of Ag. Chem & Soil Science, NMCA, Navsari • Clarify T₁, T₂ & T₃ treatments as under : <ul style="list-style-type: none"> - T₁: Seed treatment with Thirum @ 3-4 g/kg seeds, Use weedicide Pretilachlor @ 1.0 kg a.i /ha, Fertilizer: 40:20:00 NPK kg/ha, Need based plant protection - T₂: Seed treatment with biofertilizer, dipping of seedlings for 30 minutes, Replace 10 t /ha FYM with 5 t/ha Biocompost in all treatments, Apply 2kg/ha Azotobacter + 2 kg/ha PSB - T₃: Seed treatment with Pseudomonas @10 g/kg, Dipping of seedlings for 30 minutes, Replace 10 t /ha FYM with 5 t/ha Biocompost in all treatments, Apply 2 kg/ha Azotobacter + 2 kg/ha PSB • Conduct multi location trial at Vyara and Dediapada 	<ul style="list-style-type: none"> • Revise T₂ 30 kg N, 20 kg P₂O₅ and Biocompost 2 t/ha. 	
	Main Cotton Research Station, Surat			
(1)	Agronomic requirement of cotton varieties for high density planting systems under irrigated conditions	<ul style="list-style-type: none"> • RDN : 180 kg N/ha • Add observations: Plant stand initial and at harvest, Quality parameters, Pest & disease incidence, Weed study 	<ul style="list-style-type: none"> • Take G. Cot. Hy 8 (BG II) out side the experiment with recommended practices. 	
	Cotton Research Station, Bharuch			
(1)	Influence of high density plant population and nitrogen levels on seed cotton yield of <i>G. herbaceum</i> cotton var. GN Cot.-25	<ul style="list-style-type: none"> • Design : Strip Split Plot • Include Pest & disease as well as weed study observations • Mention the collaboration of Ag. Chem & Soil Science, CoA, Bharuch 	<ul style="list-style-type: none"> • Conduct experiment in FRBD 	
	NARP, Bharuch			

(1)	Study on spacing and nutrient management with and without VAM in BP 06-633 (GNT-2) under rain fed condition in south Gujarat	<ul style="list-style-type: none"> • Design: FRBD • Modify plot size in consultation with Dr. Usadadiya, Dr. Pandya and Dr. Desai • Delete S₁ treatment • V₁: VAM + Rhizobium multiply in 5 t/ha FYM • Add in observations : Plant stand initial and at harvest, Plant analysis for NPK, Replace 'Ento-Patho' word with "pest and disease observations" • Modify the Expt. Title, delete name of variety • Mention the collaboration of Research Scientist, Soil Science department, NAU, Navsari 	-	
	Agril. Research Station, Tanchha			
(1)	Fertilizer management in rabi black moong var. GBM-1 under conserved soil moisture condition	<ul style="list-style-type: none"> • Modify the Expt. Title, delete name of variety • Modify treatments as T₂ : 5 t/ha FYM, T₃: 2 t/ha VC, T₄: 2.5 t/ha FYM and T₆ 1 t/ha VC • Correct the Sr. no. of Treatments • Add in observations : Plant analysis for NPK uptake • Seed yield kg/ha only 	-	
(2)	Effect of spacing and fertilizer management practices on rabi pigeon pea var. GT-102 under conserved soil moisture condition	<ul style="list-style-type: none"> • Modify the Expt. Title, delete name of variety • Treatments : T₁: RDF alone, T₂: 75 % RDF + 2t/ha VC, T₃: 75 % RDF + 2t/ha VC + Biofertilizer (Rhizobium + PSB) • Add NPK uptake observation 	<ul style="list-style-type: none"> • In treatment T₂ and T₃ use Vermicompost @ 1 t/ha instead of 2 t/ha 	
	Agril. Research Station, Mangrol			

(1)	Response of <i>rabi</i> sorghum variety to nutrient management in rice fallow	<ul style="list-style-type: none"> • In treatments, delete V₄ & R₁ • Add common dose of 10 t/ha FYM • In biofertilizer, (Seed treat + Soil application@2 kg/ha) • Add Plant stand initial and at harvest in observations • Replace panicle word with “ear head” • Use ‘Varieties’ instead of ‘variety’ in title 	-	
(2)	Intercropping suitability of sorghum and pigeon pea genotypes	<ul style="list-style-type: none"> • Take 4 replications • Modify treatments as follows: T₁: GJ-38, T₂: GJ-38 + Pigeon Pea (Vaishali), T₃: GJ-38 + Pigeon pea (GT-101), T₄: GJ-38 + Pigeon pea (GNT-2), T₅: GJ-38 sole, T₆: Pigeon pea (Vaishali) sole, T₇: Pigeon pea (GT-101) sole, T₈: Pigeon pea (GNT-2) sole • Add in observations : Weed study, Pests & Diseases, Sorghum equivalent yield • Fertilizer application on area base 	<ul style="list-style-type: none"> • Change the row ratio as 1:1 instead of 2:1 in treatments T₁, T₂ and T₃. • Take variety AGT 2 instead of GNT 2 	
	Dept. of Agronomy, NMCA, Navsari			
(1)	Identification and or diversification of present crop sequence	<ul style="list-style-type: none"> • Correct the fertilizer dose of castor GCH-7 as 120:30:00 NPK kg/ha instead of 75: 50:00 kg/ha NPK 	-	
(2)	Integrated weed management in <i>kharif</i> sorghum (<i>Sorghum bicolor</i>) and their residual effect on succeeding crop under south Gujarat conditions	<ul style="list-style-type: none"> • Take experiment in <i>rabi</i> season instead of <i>kharif</i> • Delete the treatment T₁₁ • Mention the 2-4, D form as Amine • Select variety GJ-38 • Take residue study on Green gram • Keep spacing of 60 x 15 cm • Weed count and spray application time 25 DAS instead of 20 DAS in all cases 	-	
(3)	Response of soybean (<i>Glycine max</i>) to weed management and different plant population levels during <i>kharif</i> season	<ul style="list-style-type: none"> • Fertilizer dose: 30:60:00 NPK kg/ha 	<ul style="list-style-type: none"> • Use word spacing instead of plant population 	

(4)	Efficacy of herbicides and nitrogen use efficiency in aerobic rice	<ul style="list-style-type: none"> • Select upland site for experiment • Take this experiment on NAUR-1 variety 	<ul style="list-style-type: none"> • Recast title as “Weed and nitrogen management in aerobic rice” • Delete NUE from the observation and add grain yield per kg applied nitrogen 	
(5)	Effect of transplanting dates and nitrogen levels on growth, yield and quality of summer pearl millet under south Gujarat condition	<ul style="list-style-type: none"> • Modify the experiment after first year results to include integrated nutrient management 	<ul style="list-style-type: none"> • Mention 1st fortnight of Feb. instead of recommended sowing time in treatments M₁, M₂ and M₃ 	
	Dept. of SSAC, NMCA, Navsari			
(1)	Evaluation of DRIS approach for assessing nutritional status of banana in South Gujarat	<ul style="list-style-type: none"> • Before conducting the trial , collect the samples from banana growing area 	<ul style="list-style-type: none"> • Take as validation study if work is done elsewhere 	
(2)	Comparison of different digestion methods for analysis of multi elements (P, K, Fe, Mn, Zn, Cu) from plant	<ul style="list-style-type: none"> • Replace the word ‘multi’ with ‘different’ in title 	<ul style="list-style-type: none"> • Add wet digestion in different instruments to be used for digestion 	
(3)	Comparison between kjeldhal auto digestion distillation and N analysis methods for determination of N from plant/manures/fertilizers	-	-	
(4)	Preparation of enriched biochar compost from farm waste (feeler trial)	<ul style="list-style-type: none"> • Find C:N ratio • Replace Subabul with Gliricidiya 	-	
(5)	Effect of rates of N and P application on yield and quality of Broccoli	<ul style="list-style-type: none"> • Add K in title instead of only N and P • Record NO₃⁻ content 	<ul style="list-style-type: none"> • Revise P₂O₅ levels as 0, 40 and 60 kg/ha 	
(6)	Survey of nitrate (NO ₃ ⁻) levels in different vegetables available in Navsari market (feeler trial)	<ul style="list-style-type: none"> • Record NO₃⁻ and heavy metal content 	<ul style="list-style-type: none"> • Approved as survey 	
	Dept. of NRM, ACHF, Navsari			

(1)	Effect of different water salinity levels on young teak plants	<ul style="list-style-type: none"> • Correct the title as : Effect of different salinity levels of irrigation water on young teak plants • Take 4 replications • Use 2-3 different clones 	<ul style="list-style-type: none"> • Write ‘normal water’ instead of ‘best available water’ in treatment S1. 	
(2)	Effect of different salinity levels on different clones of <i>Casurina equisetifolia</i>	<ul style="list-style-type: none"> • Correct the title as : Effect of different salinity levels of irrigation water on different clones of <i>Casurina equisetifolia</i> 	<ul style="list-style-type: none"> • Write ‘normal water’ instead of ‘best available water’ in treatment T₁. 	
(3)	Study the temporal and spatial changes in water quality of the NAU campus	<ul style="list-style-type: none"> • Consult Professor (Statistics),NMCA for design, replication, statistical analysis, etc. • In treatment T₄, mention the name of Research Station as individual treatment and assign sequential treatment number to each <i>i.e.</i> T₅, T₆, T₇ <i>etc.</i> 	<ul style="list-style-type: none"> • Take GPS points 	
	Dept. of SSAC, ACHF, Navsari			
(1)	Evaluation of In situ crop residue management on quality and productivity of banana cultivated under organic farming	<ul style="list-style-type: none"> • Correct the word in T₃ as “Panchgavya” 	<ul style="list-style-type: none"> • Revise title as “Effect of farm waste management on quality and productivity of banana cultivated under organic farming” 	
	Dept. of Agronomy, CoA, Bharuch			
(1)	Effect of pre and post emergence herbicides on weed infestation and productivity of pigeonpea under rainfed condition in south Gujarat	<ul style="list-style-type: none"> • In T₅: at 45 DAS in place of 40 DAS • Delete the treatment T₁₁ • Add observations : Bioassay study, NPK content in weeds and crop, Protein content in seeds, Weed flora & weed counts, Plant population initial and at harvest 	<ul style="list-style-type: none"> • Delete the treatments T₂, T₃, T₈ and T₉. 	
(2)	Study on critical period of crop-weed competition in cotton var. G.Cot.Hy-8 (BGII) under rain fed condition of south Gujarat	<ul style="list-style-type: none"> • Delete name of variety from the title • Add observations : Oil content, Weed flora and weed counts, Plant population initial and at harvest 	<ul style="list-style-type: none"> • Take G Cot Hy. 8 (BG II) variety 	
	KVK, Dediapada	<ul style="list-style-type: none"> • 		

(1)	Response of sorghum varieties to different tillage practices under conserved moisture after <i>kharif</i> paddy (drilled)	<ul style="list-style-type: none"> • Design : Strip Plot • Replication : 4 • Replace BP-53 variety with CSV 216R • Replace the word 'panicle' with 'earhead' in observation • Add observations : Pest & disease, Economics of treatments 	<ul style="list-style-type: none"> • Conduct the experiment using large plot technique 	
	FQT Laboratory, Navsari			
(1)	Non-destructive analysis of protein, fiber and oil in rice, pigeon pea and soybean by NIR analyzer	<ul style="list-style-type: none"> • Accepted as equipment calibration study 	<ul style="list-style-type: none"> • Accepted as equipment calibration study 	
(2)	Evaluation of different extractants and methods for the determination of P and K from soil	<ul style="list-style-type: none"> • Accepted as equipment calibration study 	<ul style="list-style-type: none"> • Accepted as equipment calibration study 	