

Date: 12/01/2016

Note:

As per the circular from office of Director of Research and Dean PG Studies No. NAU/RES/T-5/AGRESCO/221-234/2016, Navsari Dated: 04/01/2016, the Agriculture Engineering Sub- Committee is scheduled to be held on 23/02/2016. As per your instructions, I have enclosed the revised list of members of Agricultural Engineering Sub-committee for the year 2016-17.

Therefore, you are requested to kindly approve the list of members.

T/S

(N. M. Shah)
Convener

AGRESCO Sub Committee
Agricultural Engineering

Approved

To,
Director of Research and Dean PG Studies,
NAU, Navsari

12/1/16

**List of Members of Agricultural Engineering Sub-Committee
(Year: 2016-17)**

Sr. No.	Name	Designation	Address
1.	Dr. A. N. Sablpara	Director of Research	Director of Research, NAU, Navsari
2.	Dr. G. R. Patel	Director of Extension Education	Director of Extension Education, NAU, Navsari
3.	Er. P. R. Pandey	Principal and Dean	College of Agril. Engineering and Technology & Polytechnic Agril. Engineering, NAU, Dediapada
4.	Dr. P. K. Shrivastava	Principal	College of Forestry, NAU, Navsari
5.	Er. N. M. Shah	Convener AGRESKO & Associate Professor	ACHF, NAU, Navsari
6.	Er. B. R. Patel	Associate Professor	College of Agril. Engineering and Technology, NAU, Dediapada
7.	Dr Bankim L. Radadiya	Director of Information and Technology	AABMI, NAU, Navsari
8.	Dr. Dev Raj	Associate Professor and Head	PHT, NAU, Navsari
9.	Er. A. L. Chalodiya	I/c. Asso. Professor & Head	Dept. of Agril. Engg., NMCA, NAU, Navsari
10.	Er. N. G. Savani	Assistant Professor	Soil Water Management Research Unit NAU, Navsari
11.	Er. B. M. Soliya	Assistant Professor	Soil Water Management Research Unit NAU, Navsari
12.	Er. P. S. Pandit	Assistant Professor	PHTC, NAU, Navsari
13.	Er. A. K. Senapati	Assistant Professor	Post Harvest Techn., ACOHF, NAU, Navsari
14.	Er. A. P. Lakkad	Assistant Professor	Polytechnic Agril. Engg. NAU, Dediapada
15.	Er. Alok Singh	Assistant Professor	Polytechnic Agril. Engg., NAU, Dediapada
16.	Er. Manjushri Singh	Assistant Professor	Dept. of Agril. Engg., NMCA, NAU, Navsari
17.	Er. Vipul T. Sindhe	Assistant Professor	College of Agriculture, NAU, Waghai
18.	Er. F. M. Sahu	Assistant Professor	PHTPE, NAU, Navsari
19.	Dr. S. H. Sengar	Associate Professor	CAET, NAU, Dediapada
20.	Er. S. N. Singh	Assistant Professor	Polytechnic Agril. Engg. NAU, Dediapada
21.	Er. H. Sanchavat	Assistant Professor	Polytechnic Agril. Engg. NAU, Dediapada
22.	Er. Swagatika Jena	Assistant Professor	CAET, NAU, Dediapada
23.	Er. Deepak Singh	Assistant Professor	College of Agril. Engineering and Technology, NAU, Dediapada
24.	Er. Aashish Sonwane	Assistant Professor	CAET, NAU, Dediapada
25.	Mr. Pravin Parmar	Assistant Professor	ACHF, NAU, Navsari
26.	Er. Tilak Chavada	Assistant Professor	CAET, NAU, Dediapada
27.	Mr. S. G. Patel	Assistant Professor (IT)	CAET, NAU, Dediapada
28.	Dr. Meghana Varma	Assistant Professor	CAET, NAU, Dediapada
29.	Dr. P. R. Bhatnagar	Head of Institute	Central Soil & Water Conservation Research & Training Institute, Research Centre, Vasad - 388306, Distt. Anand, Gujarat
30.	Er. R. G. Burbade	Asstt. Prof (PHT)	CAET, NAU, Dediapada

31.	Er.Patel Vibhuti A.	Asstt. Prof (PHT)	CAET, NAU, Dediapada
32.	Er.Patel Balkrishna N.	Asstt. Prof (FMP)	CAET, NAU, Dediapada
33.	Er. Sodarva Ketan N	Asstt. Prof (SWE)	CAET, NAU, Dediapada
34.	Dr Rahul G. Thakkar	Associate Professor (IT)	AABMI, NAU, Navsari
35.	Mr. Bhavesh D. Chaudhari	Assistant Professor (IT)	AABMI, NAU, Navsari
36.	Mr. Vimal B. Patel	Assistant Professor (IT)	Agriculture College -Waghai
37.	Dr. Vineet Kumar Sharma	Assistant Professor	NARM, Main Rice Research Centre, NAU, Navsari
38.	Dr. Reena Kumari	Assistant Professor	Dept. of S&W Engg., NMCA,Navsari
39.	Er. Piyush D. Akabari	Assistant Professor	College of Agriculture, Bharuch
40.	Mr. O. U. Vadaviya	Assistant Professor	NMCA, NAU, Navsari
41.	Prof. J. R. Naik	Associate Professor	Dept. of Agril. Statistic, NMCA, NAU, Navsari
42.	Prof. S. Ojha	Assistant Professor	
43.	Director/ Representative	Director/ Representative	ASPEE Foundation Malad, Mumbai
44.	Director/ Representative	Director/ Representative	Suruchi Farm, Bardoli
Invited Members			
45.	Dr. B. N. Patel	Dean and Principal,	ACHF, NAU, Navsari
46.	Dr. J. D. Thanki	Professor and Head (Agronomy)	NMCA, NAU, Navsari
47.	Dr. Sunil Chaudhari	ADR	Director of Research, NAU, Navsari
48.	Dr. K. A. Patel	ADR	Director of Research, NAU, Navsari
49.	Er. S. P. Shukla	Professor	Retd. Principal, CAET & PAE, NAU, Dediapada

**ASPEE COLLEGE OF HORTICULTURE AND FORESTRY
NAVSARI AGRICULTURAL UNIVERSITY
NAVSARI-396 450**

Er. N. M. SHAH
Assoc. Prof. & Convener (AGRESCO-AE)

Mo: 09879516068
E-mail nirbhayaspee2013@gmail.com

To:

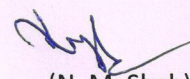
NO. ACOHF/Engg/ 958-1008
NAVSARI. Dated 12/01/2016

All Members of AGRESCO Meeting of Agricultural Engineering Sub- committee

Sub.: Regarding 12th AGRESCO Meeting.

Ref.: Letter from Office of DR and Dean PG No. NAU/RES/T-5/AGRESCO/221-234/2016,
Navsari Dated: 04/01/2016

All the members of AGRESCO Sub-Committee of Agricultural Engineering discipline are hereby informed that, the 12th Agricultural Engineering Sub-Committee meeting is scheduled on 23.02.2016. Therefore, all the members are requested to send concern On-going Research Progress Reports, New Technical Programs and recommendations to all the members as well as in five copies to the undersigned before 16.02.2016. You are also requested to submit the Action Taken Report on comments of last meeting separately to undersigned for compilation. Concern members are also requested to present their dropped recommendation of 11th Combined Joint AGRESCO Meeting after incorporating suggestion. All are also informed to remain present on 23.02.2016 for the presentation of their report in the Conference Hall, 1st floor, College of Forestry, NAU, Navsari. Members are requested to prepared their report in A-4 Size papers and send two hard copies and a soft copy to the Director of Research and Dean PG Studies , NAU, Navsari.



(N. M. Shah)
Convener
AGRESCO Sub Committee
Agricultural Engineering

Copy W.C. to;

- PS to Hon. VC for information.
- Director of Research and Dean PG Studies, NAU, Navsari.
- All members of Agricultural Engineering Sub Committee.

ર.	બેડનું માપ : અ. ઉપરની પહોળાઈ : ૪૦ સે.મી. બ. નીચેની પહોળાઈ : ૭૦ સે.મી. ક. ઉચાઈ : ૩૦ સે.મી.	૩.	ડ્રીપરડિસ્ચાર્જ રેઈટ : ૨ લીટર/કલાક
૩.	પ્રતિ બેડ હારની સંખ્યા : ૨	૪.	ડ્રીપ ચલાવવાનો સમય : અ. ફેબ્રુઆરી : ૨૦ થી ૪૫ મીનીટ/દિવસ બ. માર્ચ : ૩૦ થી ૯૫ મીનીટ/દિવસ ક. એપ્રિલ : ૭૦ થી ૧૦૫ મીનીટ/દિવસ ડ. મે : ૭૦ થી ૯૦ મીનીટ/દિવસ
૪.	અંતર : અ. બેડનું અંતર : ૧૮૦ સે.મી. બ. બે હાર વચ્ચેનું અંતર : ૨૦ સે.મી. ક. બે છોડ વચ્ચેનું અંતર : ૪૦ સે.મી.		

(Action: Department of RE & RE, CAET, JAU, Junagadh)

Navsari Agricultural University

11.5.1.27	Preparation of ready to serve (RTS) beverage from banana pseudostem sap House suggested to present this recommendation in next year after incorporating following suggestions next year 1. Ingredients combinations should have been used at a time in all treatments. 2. Vitamin C, PH, TSS should be reassessed. 3. Thermal process parameters requires optimization. (Action: I/c, CE on PHT, Navsari)
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11.5.1.28	Study of effect of drainage on banana production in South Gujarat House suggested to present this recommendation in next year after incorporating following suggestions 1. Surface drainage coefficient for banana is to be calculated. 2. Amount of runoff to be given based on rainfall to design the trench. 3. Trench detail design is to be provided. (Action: I/c Prof. And Head, Dept. of Agril. Engg., NMCA, Navsari)
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11.5.1.29	Effect of laser leveling on crop water requirement and growth of castor crop House suggested to present this recommendation in next year after incorporating following suggestions 1. Leveling index is to be defined 2. Slope recommended should be matched with the slope or border irrigation design (Action: I/c Prof. And Head, Dept. of Agril. Engg., NMCA, Navsari)
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11.5.1.30	Study on levels of nitrogen and intra-row spacing on yield of drip irrigated castor (Rabi) The farmers of South Gujarat heavy rainfall zone (AES III) growing drip irrigated castor (GCH-4) during rabi season are advised to sow their crop with intra row spacing of 0.6 m and row spacing of 2.4 m. Further, they are advised to fertilize @ 160:40NP kg/ha. The full dose of P and 10 % N should be applied as basal and remaining 90 % N should applied through drip system in 10 equal spilt at an interval of 8-10 days starting from 15 DAS. By adoption of these practices, higher yield and net profit can be realized
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	<p>as compared to paired row (60x60:120 cm) sown castor. The system details are: Lateral spacing: 2.40 m Dripper spacing: 0.60 m Dripper discharge: 4 lph Operating frequency: Alternate day Operating time: Nov-Dec : 80-130 min Jan-Feb : 90-160 min March onward : 150-210 min</p> <p>ખેડૂત ઉપયોગી ભલામણ દક્ષિણ ગુજરાતની ભારે વરસાદવાળી કૃષિ આબોહવાકીય પરિસ્થિતિ-૩ માં ટપક પદ્ધતિથી શિયાળુ દિવેલાટ નહજઢ,૯ વાવતા ખેડુતોને બે હાર વચ્ચે ૨.૪ મીટર અને છોડ વચ્ચે ૦.૬ મીટરનું અંતર રાખી વાવેતર કરવાની ભલામણ કરવામાં આવે છે. તેમજ પાકને ૧૬૦ કિ.ગ્રા/હે નાઈટ્રોજન અને ૪૦ કિ.ગ્રા /હે ફોસ્ફરસ ખાતર આપવાની સલાહ આપવામાં આવે છે. જેમાં ૧૦ ટકા નાઈટ્રોજન અને પૂરેપૂરા ફોસ્ફરસને વાવેતર સમયે પાયામાં નાખી બાદ ૧૫ દિવસ પછી બાકી રહેલ ૯૦ ટકા નાઈટ્રોજનને ૧૦ સરખા હપ્તામાં ટથી ૧૦ દિવસને ગાળે આપવો . આમ કરવાથી દિવેલાના પાકને જોડીયા હારમાં વાવેતરની (૬૦શ૬૦ : ૧૨૦ સે.મી)સરખામણીએ વધારે ઉત્પાદન અને ચોખ્ખી આવક મળે છે.</p> <p>ટપક પદ્ધતિની વિગત: બે નળી વચ્ચેનું અંતર : ૨.૪૦ મી ટપકણીયાનું અંતર : ૦.૬૦ મી ટપકણીયાનો પ્રવાહ : ૪.૦ લી/ક પદ્ધતિ ચલાવવાનો ગાળો: એકાન્તરે દિવસે પદ્ધતિ ચલાવવાનો સમય : નવે.-ડીસે. : ૮૦ - ૧૩૦ મીનીટ જાન્યુ.-ફેબ્રુ. : ૯૦ - ૧૬૦ મીનીટ માર્ચ અને પછી : ૧૫૦ - ૨૧૦ મીનીટ</p> <p style="text-align: right;">(Action: Research Scientist, SWMRU, Navsari)</p>
11.5.1.31	<p>Design, development and evaluation of biomass based cook stove</p> <p>Design of funnel shaped cooked stove developed by NAU is recommended to rural artisans, manufacturers and general public for community cooking of 60-70 number of meal using dry wood branches, which can reduce the fuel consumption by 3.97 kg/hr with average thermal efficiency of 20.19 % as compared to three bricks cooking chulha system.</p> <p>સુકા જલાઉ લાકડાનો ઉપયોગ કરી ૬૦-૭૦ થાળી સમુદાયીક રસોઈ બનાવવા ન.કૃ.યુ. દ્વારા તૈયાર કરેલ નળીયા આકારના રસોઈ ચુલો વાપરવાની ભલામણ ગ્રામ્ય કારીગરો ઉત્પાદન કર્તાઓને અને પ્રજા માટે કરવામાં આવે છે. આમ કરવાથી ત્રણ ઈટ રસોઈ ચૂલ્હાની સરખામણીમાં ૩.૯૭ કિ.ગ્રા/કલાક ઈંધણની બચતની સાથે ૨૦.૧૯ % ઉષ્મા ઉપયોગ ક્ષમતા મળે છે.</p> <p style="text-align: right;">(Action: Dean, CAET Dediapada)</p>
11.5.1.32	<p>Development and evaluation of low cost solar still</p> <p>House suggested to present this recommendation in next year after incorporating following suggestions</p> <ol style="list-style-type: none"> 1. Higher transmittance covering material should be used. 2. Change the shape giving more surface area facing the sun. <p style="text-align: right;">(Action: Dean, CAET Dediapada)</p>
Sardar Krushinagar Dantiwada Agricultural University	
11.5.1.33	<p>Development of value added kalakand using papaya fruit.</p> <p>The programme is to be presented next year with incorporation of value adding</p>

	Development and performance evaluation of a low cost plastic mulch laying machine.	House approved the project. (Action: Prof. & Head, FMP, CAET, Junagadh)	
11.5.2.38	Enzymatic pre-treatment in the processing of pigeon pea.	Approved with following suggestion/s Cooking time, broken percentage and cost saving should be recorded. (Action: Prof. & Head, PFE, CAET, Junagadh)	
11.5.2.39	Role expectation of farm women in harvest and post harvest activities of groundnut crop in Junagadh district.	House approved the project. (Action: Prof. & Head, AEEE, CAET, Junagadh)	
11.5.2.40	Effect of coloured plastic mulches on cultivation of tomato crop.	House approved the project. (Action: Prof. & Head, RERE, CAET, Junagadh)	
11.5.2.41	Effect of protected environment on off-season seedling raising of papaya.	House approved the project. (Action: Prof. & Head, RERE, CAET, Junagadh)	
11.5.2.42	Evaluation of mulching technology for bunch type groundnut crop.	Approved with following suggestion/s Water saving should be recorded. (Action: Prof. & Head, RERE, CAET, Junagadh)	
11.5.2.43	Development and Standardization of <i>Burfi</i> using buffalo milk and <i>Cucurbita pepo</i> pulp	House approved the project. (Action: Principal, College of Vet. Sci. & Animal Husbandry, Junagadh)	

Navsari Agricultural University

Sr. No.	Title / Centre	Suggestions	Remarks
11.5.2.44	Centre: Department Natural Resource Management, ACHF, Navsari Irrigation Scheduling of teak seedling grown in nurseries	Approved with following suggestion/s 1. Irrigation must be given at every day, every alternate day, every 2 day interval and every 3 day interval. 2. Irrigation must be given in control treatment by <i>zara</i> . 3. Total no. of plots must be 4. (Action: Prof. & Head, NRM, Navsari)	
11.5.2.45	Centre: Center of Excellence on PHT, Navsari Packaging studies of freshly roasted immature sorghum 'Sorghum Bicolor' seed (Pauk)	Approved with following suggestion/s 1. In place of glass jar, use PET jar. 2. Observations must be taken upto 2 months or till the product is acceptable. (Action: I/c, CE on PHT, Navsari)	
11.5.2.46	Packaging and storage studies	Approved with following suggestion/s	

	of drumstick 'Moringa oleifera' and its pulp.	<ol style="list-style-type: none"> 1. Treatment T5, T6 should be removed for 6 cm size drumstick preservation. 2. Add above treatments for whole drumstick. 3. Take the observation of only moisture content, tenderness, organoleptic evaluation and microbial count. 4. For pulp, study chemical spoilage and organoleptic evaluation. 5. Add one more treatment of shrinkage wrapping of 40 μ LDPE film. 6. For pulp, only tin can must be used. 7. Observation must be taken weekly. (Action: I/c, CE on PHT, Navsari)	
11.5.2.47	Design of Card Board box for Packaging of Kesar Mango	House suggested to drop the experiment due to existence of the design of such boxes in market. (Action: I/c, CE on PHT, Navsari)	
11.5.2.48	Centre: Department of Agricultural Engineering, NMCA, Navsari		
	Determining feasibility of an on farm reservoir for rice based cropping system in south Gujarat under climatic change scenario.	House approved the project. (Action: I/c Prof.& Head, Dept. of Agril. Engg., NMCA, Navsari)	
11.5.2.49	Evaluation of the laser leveled land leveling technology on crop yield, water use productivity & growth of Banana crop in South Gujarat.	Approved with following suggestion/s <ol style="list-style-type: none"> 1. Leveling index must be calculated. 2. Slope is to be matched with the design of furrow irrigation. 3. Define whether blocked or open furrow. (Action: I/c Prof.& Head, Dept. of Agril. Engg., NMCA, Navsari)	
11.5.2.50	Centre: College of Agricultural Engineering and Technology, Dediapada		
	Modeling yield and Evapotranspiration (<i>Oryza sativa</i> L.) of rice as influenced by transplanting date and weather parameters	Approved with following suggestion/s <ol style="list-style-type: none"> 1. Use software ORIZA instead of DSSAT 2. Weather parameters accounted to predict yield should be spelled. 3. Spell whether AET or PET modeling. (Action: Dean, CAET, Dediapada)	
11.5.2.51	Centre: College of Agriculture, Waghi		
	Quantitative Determination of	Approved with following suggestion/s	

	Soil Erosion and Prioritization of Micro-watersheds using Remote Sensing and GIS	Use the software MUSLE in place of USLE. (Action: Dean, College of Agriculture , Waghai)	
11.5.2.52	Assessment of Water Resources of Navsari and Dang District using water Quality Index and GIS	Approved with following suggestion/s 1. Revise the title as "Assessment of quality and quantity of Water Resources of Navsari and Dang District using GIS and water Quality Index. 2. In place of PRM and POM, use the words pre-monsoon and post-monsoon. (Action: Dean, College of Agriculture , Waghai)	
11.5.2.53	Centre: LPT, College of Veterinary Science & A.H., Navsari		
	Studies on development of burfi utilizing watermelon (<i>Citrullus lanatus</i>) rind	Approved with following suggestion/s Remove the words <i>Studies on</i> in the title. (Action: Prof. & Head, Dept. of LPT, College of Veterinary Science & A.H., Navsari)	

Sardar Krushinagar Dantiwada Agricultural University

Sr. No.	Title / Centre	Suggestions	Remarks
11.5.2.54	Centre: Center for PHT and Agro Industries, S.K. Nagar Dehydration of date palm halves using different drying methods.	Approved with following suggestion/s 1. Only two treatments have been suggested (i) Hot air dryer and (ii) Solar dryer as control 2. Experiment to be taken with three loading rates, four levels of temperature and two levels of air flow rate (Action: Prof. & Head, Dept. of PHTC & AI, S.K. Nagar)	
Centre: Center for watershed mgmt. participatory research & rural engineering, S.K. Nagar			
11.5.2.55	Enhancing RWUE of castor crop with use of hydrogel under dry land condition	Approved with following suggestion/s In title RWUE shall be expanded (Action: Research Scientist, CWMPR & RE, S.K. Nagar)	
Center: College of Renewable Energy & Environmental Engineering, S.K. Nagar			
11.5.2.56	Techno-economic feasibility of Solar Water Pumping System in Northern Part of Gujarat, India	Approved with following suggestion/s 1. Evaluate techno economic feasibility of solar system in farmer fields 2. How much crop area will be covered under surface and drip should be mentioned	