



NAVSARI AGRICULTURAL UNIVERSITY

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No.NAU/DEE/D-1/21<sup>st</sup> –ZREAC/4887-4996/2014 Navsari Date: 05/11/2014

To,  
All the Members of ZREAC

Please find enclosed herewith proceeding of the 21<sup>st</sup> meeting of ZONAL RESEARCH AND EXTENSION ACTION COMMITTEE (*Rabi*) of Navsari Agricultural University held on 7<sup>th</sup> October, 2014.

All the concerned members are requested to take necessary action on the items pertaining to them and send the action taken report on Email: tvs@nau.in to the office of the undersigned within a week.

**Director of Extension Education**

*Encl.: a/a*

*CC for information to:*

1. Director of Agriculture/ Horticulture/Animal Husbandry, Gandhinagar
2. Zonal Project Coordinator, Zone No.6, ICAR, CAZRI, Jodhpur (Rajasthan)
3. Director of Research, NAU, Navsari
4. Principal, NMCA/ACHF/CVSAH/ABM, Navsari
5. Joint Director of Agriculture (Extension), Surat/Baroda

**PROCEEDINGS OF THE 21<sup>ST</sup> ZONAL RESEARCH AND EXTENSION ACTION COMMITTEE HELD ON 7<sup>TH</sup> OCTOBER-2014 AT SARDAR TRAINING HALL, SSK, NAVSARI**

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The meeting was started with the warm welcome by Dr. G. R. Patel, Director of Extension Education, NAU, Navsari. In his welcome address, he appreciated the efforts made by University and KVKs regarding rapid Transfer of Technology (TOT) at Grass Roots Level. He emphasized on coordination among Research Stations, KVKs and Line Departments. He also mentioned about the change in approach of Farmer's Led Extension to Market Led Extension. He praised the efforts for special types of trainings conducted by university and KVKs to the benefit of farmers. He especially appraised the Voice SMSs, Text Messages and use of ICTs in agriculture being send by KVKs. Kitchen Gardening, Kisan Portal, NAU Website and U-Tube video are also in the service of the farming community. He stressed on need for new and quality feedback.

Mr. Gabani, representative of Joint Director of Agriculture, Surat emphasized on the constraints faced by farmers and shortage of vegetable seeds. He also demanded for research on vegetables and availability of quality seed.

Dr. N. L. Patel, Dean, Aspee Collage of Horticulture and Forestry drew the attention of house on poor presence of officers from line departments especially horticulture. He explained the role of ZREAC and told that the research conducted in horticulture since last 10 years is based on feedback of ZREAC, only. He made the house aware regarding drastic change in banana production from 25 ton to 65 tons, for that role of KVK is pivotal. He also explained the importance of vegetative propagation in vegetables, ample scope of grafting in vegetables, live wall for esthetic value, urban and peri-urban horticulture and organic farming in horticultural crops. He focused on the facts that pre-cooling chamber and cold storage are essential for horticulture and it should be manage by co-operative sectors.

Dr. A. N. Sabalpara, Director of Research and Dean PG Studies, NAU, Navsari in his presidential speech welcomed to all. He mentioned about the noble services provided by NAU in the benefit of farming community during the year 2013-14, total 39 scientific recommendations and 123 technologies for farming community is given by the University. He advised the extension functionaries to provide benefits of government scheme to the needy farmers. He discussed seed mission of government, organic seed, organic policies of government, registration of nursery, weather based crop insurance, modifying the previous recommendations of pesticides according to the new guidelines of CIB. He requested to line department for use of bio-fertilizers in all crops and also informed to house regarding adoption of bio-fertilizers in different crops ranging from 5-40%. He addressed the issues on nutritional security and informed the house about new varieties developed by NAU in different crops containing high nutrients content e.g. GNR-4 and Purna in rice as well as in Nagli, present need for development of minor fruits on commercial basis, share of the horticulture is higher than agriculture on per unit area. He informed the house about new variety of Indian bean is a best intercrop in sugarcane. He discussed the ample scope of

fisheries and agro-forestry in South Gujarat and NAU will be started Fisheries College in short. He advised research for coastal area and conservation of soil, water and environment through land configuration. Focused on seaweed extract as novel organic fertilizer and need of low cost technologies for farmers, it can be minimized residual effect through use of organic inputs.

### **21.1 Presentation of Action Taken Report**

Action taken report on the proceedings of 19<sup>th</sup> ZREAC meeting held on 5<sup>th</sup> October, 2014 was presented by Dr. G.B. Kalariya, Directorate of Extension Education, NAU, Navsari and it was approved by the house with following suggestions.

1. All DAOs were instructed to give the action taken report regular and within given time limit to DEE office.

**(Action: All DAOs of South Gujarat)**

2. All KVKs should take a fisheries related activity mandatory.

**(Action: PCs of KVKs of NAU jurisdiction)**

3. Damages in different major crops due to climate change is recorded at all KVKs, for that one orientation training will be conducted at main campus.

**(Action: DEE office, NAU, Navsari)**

4. Team of Entomologist should be made for strict monitoring of mango hoppers in Navsari and Valsad district of South Gujarat.

**(Action: Department of Entomology, NAU, Navsari)**

### **21.2 Presentation of Feedback / Farm trials by officers from Line Departments.**

#### **21.2.1 DAO, Navsari**

The District Agricultural Officer, Navsari presented the district profile, area, production and productivity of different crops, results of Farm trails and feedback for research. The house made the following suggestions.

1. All Farm trails should repeat in next year.

**(Action: DAO, Navsari)**

#### **Feedback**

1. Arrange diagnostic visit for yellowing in cucurbits.

**(Action: DAO, Navsari and Department of Plant Pathology, NMCA, NAU, Navsari)**

#### **21.2.2 DAO, Valsad**

The Assistant Director of Agriculture, Dharampur presented the report. He presented the data regarding area, production, rainfall, results of farm trials and few points of feedbacks.

#### **Feedback**

1. Mechanization in Paddy Transplanting and harvesting in Valsad District.

**(Action: Professor and Head, Dept. of Ag. Ext., NMCA, Navsari)**

2. Yellowing in cucurbits.

**(Action: DAO, Valsad and Plant Pathology, NMCA, NAU, Navsari)**

3. YMV resistant variety in Okra.

### 21.2.3 DAO, Surat

The District Agricultural Officer, Surat presented the district profile which included the information of rainfall, area, production and productivity of different crops, results of farm trails, planning of farm trails for ensuing *kharif* season and feedback.

#### Feedback

1. Research on preparation of single eye bud seedlings in plug tray for sugarcane. (SSI technology)

(Action: R.S., Sugarcane, NAU, Navsari)

2. Hybrid varieties of okra should be evolved by university which can with stand towards private hybrids.

(Action: Veg. Research Station, NAU, Navsari)

3. Training should be conducted for scientific measurement of residual effect of Agrochemicals in vegetables.

(Action : DDE, NAU, Navsari)

4. Sugarcane Scientist should visit the SSI technology produced sugarcane plants at Ambach, Ta. Valod, Tapi.

(Action : (Action: R.S., Sugarcane & DDE, NAU, Navsari)

### 21.2.4 DAO, Tapi

The DAO, Tapi presented a report containing area, production and productivity of main crops, rainfall data and farm trials. House suggested following points for research.

1. Research on Agronomical practices for hybrid rice.

(Action: R.S., Paddy, NAU, Navsari)

2. Research on Sugarcane plantation in August month.

(Action: R.S., Sugarcane, NAU, Navsari)

3. Research on new variety of paddy for rainfed and irrigated as a substitute of IR 28 and GR-5 respectively.

House suggested rice variety IR-28 is replaced by GNR-3 and GR-5 is replaced by Purna.

(Action : DAO, Tapi)

4. Research on okra hybrid varieties and new IPM package for private hybrids in okra.

(Action: Veg. Research Station, NAU, Navsari)

### 21.2.5 DAO, Bharuch

The representative of DAO, Bharuch presented the report containing area, production and productivity of main crops of the district and rainfall data. House suggested following points.

1. Recommended soybean variety JS-95 for demonstration in Bharuch.

(Action: DAO, Bharuch)

2. Recommended pigeon pea variety GT-102 for demonstration in Rabi.

(Action: DAO, Bharuch)

3. Reduction of wilt on pigeonpea in kharif, use ridges and furrow method.(Land configuration in pigeon pea)

**(Action: DAO, Bharuch)**

4. Perfect diagnosis of viral infestation in papaya should be carry out with department of Plant pathology and than after recommendation will be suggested by concern.

**(Action: DAO, Bharuch)**

5. Perfect classification of Bt. cotton according to early, mide late and late along with improved package of practices for Bt. cotton.

**(Action: R.S., Cotton, NAU, Surat)**

#### **21.2.6 DAO, Narmada**

The DAO, Narmada presented a report containing area, production and productivity of main crops, rainfall data and farm trials. House suggested following points.

1. Add PKV-2 in gram with GG-2 and GG-3 in farm trial (seed source: KVK, Vyara, Tapi)

**(Action: DAO, Narmada)**

2. Crop should be mention in report for nematode control.

**(Action: DAO, Narmada)**

3. Consider early variety of Gram, GG-5 in demonstration

**(Action: DAO, Narmada)**

#### **21.2.7 DAO, Dang- Absent**

No Presentation and no representative from the Dang District that was seriously noted by the house and will be reported to higher authority.

**(Action: JDA, Surat)**

### **21.3 Farmers Representative**

#### **21.3.1 Manharbhai Patel, Ubhel, Ta. Kamrej, Dist. Surat**

He discussed regarding Global warming and shared his own experiences on organic farming, recycling of farm waste, organic mulching and preparation of bio-compost.

#### **21.3.2 Mahendrabhai D. Patel, Retd. JDA, Surat**

He advocates organic farming. “Jivan Amrut” Spraying, Akda pan (Celotrapis proceza) as an insecticide as well as organic manure. He also explained the live earth and its benefits.

#### **21.3.3 Satish Chaudhary, Sagbara**

He explained soil bacteria, live earth, beneficial microbes, soil health and advocating reduction in use of agro-chemicals in agriculture.

#### **21.3.4 Bhavik Bhakta, Ambach, Ta. Valod, Dist. Tapi**

Share his farm experience regarding one eye bud, two eye bud and plug tray seedlings of sugarcane and he advocating SSI technology in sugarcane with wide spacing. He explained cashew, bitter gourd in okra and brinjal as an intercrop and ratooning.

#### **21.4.1 DDH, Narmada**

Deputy Director, Horticulture, Narmada presented a report of Narmada. He presented area, production and productivity of horticulture crops in Narmada. House suggested following points.

1. Horticulturist of KVK, Dediypada and DDH, Narmada should take a visit of pomegranate farms of farmers.

**(Action: PC, KVK, Narmada)**

#### **21.4.2 DDH, Bharuch**

The report included data of area and production of fruits, flowers and vegetable crops.

### **21.5 KVKs of South Gujarat**

#### **21.5.1 KVK, Navsari**

Programme Co-ordinator, KVK, Navsari has presented the progress report and action plan. House has made a following suggestions.

1. In Adaptive trials take new varieties of NAU.
2. Waste management of sugarcane and Jingha (Prawns).
3. Ragi and Nizer should be demonstrated in Navsari district.
4. Specify cultural application according to canopy in mango.

**(Action: PC, KVK, Navsari)**

#### **21.5.2 KVK, Tapi**

Programme co-ordinator, KVK, Tapi has presented a sound progress report including impact studies, Case studies, success stories and change occurred in district due to various extension activities of KVK. House has made a following suggestions.

1. New experiments should be taken on bio-fertilizers and banana pseudostem sap (Novel organic fertilizer).
2. Training should be conducted on residual effect of agrochemicals on crops.

**(Action: PC, KVK, Tapi)**

#### **21.5.3 KVK, Waghai**

Programme co-ordinator, KVK, Waghai has presented a report and house has made a following suggestions.

1. Create good market for Nagli with value addition.
2. Conduct FLDs on bio-fertilizers.
3. Conduct FLDs on *Pseudomonas* in nagli and paddy.
4. In OFT change Acetamiprid 20 SP 3 gram/10 liter of water instead of Acephate.

**(Action: PC, KVK, Waghai)**

#### **21.5.4 KVK, Dediypada**

SMS (Agronomy), KVK, Dediypada has presented a report of KVK Dediypada. House has made a following suggestions:

1. Latest technologies should be incorporated in FLDs and OFTs.

2. Trainings on Inland fisheries should be conducted.
3. Trainings on Agro-forestry and value addition in forest products.

**(Action: PC, KVK, Dediypada)**

#### **21.5.5 KVK, Surat**

Programme co-ordinator, KVK, Surat has presented a report of KVK Surat. House has made a following suggestions:

1. FLDs on banana pseudostem sap(Novel organic fertilizer) should be taken.
2. FLDs of banana pseudostem sap(Novel organic fertilizer) in terrace garden should be taken.
3. SSI technology in sugarcane should be included in FLDs.
4. Fisheries related trainings/FLDs/OFTs should be conducted.

**(Action: PC, KVK, Surat)**

#### **21.5.6 KVK, Ambheti**

SMS (Horticulture), KVK, Valsad has presented a report of KVK Valsad.

##### **Feedback :**

1. NAUR-1 and GNR-4 is found highly susceptible to BLB, blast and stem borer on KVK instructional farm.

**(Action: R.S., Paddy, NAU, Navsari)**

2. Big issues of Mango girdling, needs refined recommendation.

**(Action: R.S., AES, NAU, Paria)**

#### **21.5.7 KVK, Chasvad**

SMS, KVK, Bharuch has presented a report of KVK Bharuch. House has made a following suggestions :

1. Modify the dose of ZnSo<sub>4</sub>@ 50 kg/ha as per SAU recommendation.

**(Action: PC, KVK, Chasvad)**

#### **21.6 AES - Paria**

Assistant Research Scientist, AES, Paria has presented a report of AES, Paria. House has made a following suggestion:

1. FLDs on banana pseudostem sap (Novel organic fertilizer) and *pseudomonas* should be conducted on mango.

**(Action: R.S., AES, NAU, Paria)**

#### **21.7 Irrigation Department, Navsari**

Executive Engineer, Mr. Rathod explains the irrigation schedules of Ukai canal.

The meeting ended with a vote of thanks by Dr. G. B. Kalariya, Training Associate(PP), o/o – Director of Extension Education, NAU, Navsari.



**Director of Extension Education  
Navsari Agricultural University  
Navsari**