

**Directorate of Extension Education**  
**Navsari Agricultural University, Navsari –396450**

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**Proceedings of 33<sup>rd</sup> meeting of Zonal Research and Extension Action Committee (ZREAC) held on 18<sup>th</sup> October, 2022 at Sardar Training Hall, SSK, NAU, Navsari**

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**Chairman** : Dr.T. R. Ahlawat, Directorate of Research, NAU, Navsari.  
**Co-Chairman** : Dr.N. M. Chauhan, Director of Extension Education, NAU, Navsari  
**Rapporteurs** : (1) Prof. Bhakti B. Panchal (2) Prof. S. J. Trivedi

► **Session I: Inauguration and Discussion on Action Taken Report**

In the preamble, Dr. G. B. Kalariya, Training Associate (P.P.), T&V system and Prof. V. P. Vejpara, Programme Organizer, SSK, NAU, Navsari welcomed all the dignitaries, officials of the line departments, university scientists and progressive farmers.

Dr. K. V. Patel, Joint Director (Agriculture), Surat awared the house with government policy of “one nation one fertilizer”. He emphasized on use of less chemical fertilizers as it has to be imported from foreign countries with high cost. He also mentioned to increase fertilizers use efficiency (FUE). Nowadays government is also focusing on organic farming to improve health of soil as well as public.

Dr. D. P. Thakor, Joint Director (Horticulture), Vadodara mentioned importance of various fruits in each district viz., Valsad (Alphonso- mango), Navsari (Chiku), Dangs (Strawberry), Tapi (Okra), Surat (Kamlam), Bharuch (Papaya) and Narmada (Banana). He also emphasized on need of post-harvest technology in fruits and vegetables.

Dr. N. M. Chauhan, Director of Extension Education, NAU, Navsari also welcomed all dignitaries, members and staff of KVKs of South Gujarat. He emphasized on working for our ultimate client *i.e.* farmers. He also praised all scientists received awards for their work regarding different extension activities, especially scans QR code activity of Tapi, linkage with ATMA by KVK, Surat. He also emphasized on Navsari Agricultural University technologies such as Novels, Biofertilizers, Biopesticides and Fruit fly traps which should reach to the grass roots level and at the farmer’s field. He focused on KVK, ATMA and line department work together for betterment of farming community.

Dr. T. R. Ahlawat, Directorate of Research, NAU, Navsari emphasized research and extension activities on different thrust areas of research, precision farming, drone technology, FPO formation, contract farming, digital farming, work in allied sectors like, fisheries, livestock management, development of technology for small and marginal farmer, etc. He also praised thirty three recommendations and six new varieties recommended by university during last year.

### **33.1: Presentation of Action Taken Report:**

With the permission of Chair, G. B. Kalariya, Training Associate (P.P.) presented the action taken report of 32<sup>nd</sup> ZREAC meeting and houses have approved the same.

### **Session II: Recommendations**

#### **33.2 Discussion on Recommendations**

Scientists of various disciplines *viz.*, Crop improvement (Dr. D. A. Chauhan), NRM (Dr. H. M. Virdia), Plant protection (Dr. G. B. Kalriya), Horticulture (Dr. Alka Singh) and Agri. Engineering (Dr. S. H. Sengar) presented the farmers recommendations approved during 18<sup>th</sup> Combine Joint AGRESO meeting for the information of house and officials of line departments. These scientists also informed the house about various research activities being carried out by the University.

### **Session III: Presentations by officers from Line Departments and Progressive Farmers.**

#### **33.3.1 Feedback from the Officials of the Line Departments of Agriculture:**

The DAO, Bharuch presented report of seven districts *viz.*, Navsari, Valsad, Dangs, Surat, Tapi, Bharuch and Narmada. The report was on district profile, land use pattern, rainfall, area, production & productivity of different crops and feedback for research. During the discussion, the house suggested the following suggestions.

33.3.1.1 Green gram variety for semi-rabi sowing should be developed.

House suggested GM-6,7 are suitable for semi-rabi sowing.

33.3.1.2 Research on water soluble fertilizers in cotton and pigeon pea.

(**Action:** RS, MCRS, Surat and ARS, Pulse Research station, Navsari)

33.3.1.3 New technologies of sugarcane for increasing productivity in Ankleshwar and Hasot taluka of Bharuch.

(**Action:** RS, MSRS, Navsari)

33.3.1.4 Variety for replacement of old pigeon pea variety Vaishali.

New varieties of pigeon pea *i.e.* GT-104 & 105 can replace Vaishali.

33.3.1.5 Research on single eye bud technology in sugarcane crop.

Research is going on at MSRS, NAU, Navsari.

33.3.1.6 Research on management of fall army worm in maize.

Already the folder is published based on available literature and recommendations.

33.3.1.7 Recommendations for army worm in paddy

Recommendation already made and house suggested topic will be discussed in detail under bimonthly workshop.

33.3.1.8 Research on natural farming

Research is going on at university level in sugarcane & sorghum crops.

33.3.1.9 Research on pink boll worm in cotton.

House suggested to follow university IPM technology for management

of pink boll worm.

- 33.3.1.10 Research on spraying of pesticides and fertilizers with drone technology

Purchase of drone is under process than experiment will be conducted as early as possible.

### **33.3.2 Feedback by officers from Department of Horticulture**

Shri N. N. Patel, Deputy Director of Horticulture, Surat presented the report on horticultural development in all seven districts of South Gujarat. He said there is need for research in the field of new crops likes strawberry and dragon fruit under organic farming and their marketing. House appreciated the information provided on fruit & vegetable crops with government scheme during his presentation. House discussed following points with university research in their upcoming thrust arias.

- 33.3.2.1 University recommendations require for virus management in papaya

- 33.3.2.2 University recommendations require for insect, pest management in okra and bitter gourd.

- 33.3.2.3 Necessary steps for farming in saline area.

- 33.3.2.4 Recommendations require for increase the production of papaya and banana in climate change.

- 33.3.2.5 Recommendations of technology for Ajwain crop.

- 33.3.2.6 University recommendations require for organically management of insect, pests in okra.

- 33.3.2.7 Recommendations for mites control in lily.

- 33.3.2.8 Recommendations for black thrips management in vegetables.

House suggested detail discussion should carry out in *Kharif/Rabi* workshop with concerned scientists and DR sir said concerned should start work with available resource on untouched area.

### **33.3.3 Farmers feed back**

During the session, following progressive farmers from each districts shared their views, experience and important feedback to the house.

- 33.3.3.1 Shri. Pramodbhai Patel (Navsari district): He stated that seed, fruit fly trap and other university technologies should be available at low-price and provide good market for organic product.

Shri. Devabhai Patel (Navsari district): He stated that valuable rate for by product of milk and also reduces the cost of animal food.

- 33.3.3.2 Shri. Piyushbhai Patel (Surat District) He stated that Marketing problem for product of *Prakrutik kheti*.

- 33.3.3.3 Shri. Maganbhai Kalubhai Gayakvad (Dang district) suggested seeds, improved variety, ICM and IPDM module should be developed in bitter gourd.

- 33.3.3.4 Shri. Sankarbhai Chaudhary (Tapi district). He suggested varietal development in sugarcane.

- 33.3.3.5 Shri. Sureshbhai (Narmada district) mentioned usefulness of novel-OLN in all crops. Recommended dose for all crops should be developed.  
Shri. Nandabhai Vasava appreciated organize skill development training programme on green house and net house technology at university level.
- 33.3.3.6 Shri Rakeshbhai (Bharuch District) suggested that pigeon pea GT-104 varietal seed and all university products should be available at all centers.

#### **Session IV: Presentations by Krishi Vigyan Kendra**

##### **33.4 Krishi Vigyan Kendra**

All KVKs presented their activities, progress report, feedback and action plans and house has approved all these reports with following suggestions.

##### **33.4.1 KVK, Navsari**

- 33.4.1.1 Training on value addition of dragon fruit.
- 33.4.1.2 Front Line Demonstrations on okra, brinjal and little gourd should be given  
(**Action:** KVK, Navsari)

##### **33.4.2 KVK, Tapi**

- 33.4.2.1 Front Line Demonstrations on Novel-OLN, Novle plus, Novel prime should be taken  
(**Action:** KVK, Tapi)

##### **33.4.3 KVK, Waghai**

- 33.4.3.1 Training on IPDM technology in green gram (**Action:** KVK, Waghai)

##### **33.4.4 KVK, Narmada**

- 33.4.4.1 Popularize GNR-17 (Sardar) variety of paddy (**Action:** KVK, Narmada)

##### **33.4.5 KVK, Surat**

- 33.4.5.1 Popularize new varieties of paddy
- 33.4.5.2 Popularize university products like novel plus and novel prime  
(**Action:** KVK, Sarat)

##### **33.4.6 KVK, Valsad: Nil**

##### **33.4.7 KVK, Bharuch**

- 33.4.7.1 Supply different varietal Seed/clones of fodder to all KVKs (**Action:** All KVK)
- 33.4.7.2 Demonstration on new variety of soybean (**Action:** KVK, Bharuch)

#### **Session V: Feedback**

##### **33.5 General feed back for all KVK/Scientists/State department**


- 33.5.1 Use new varieties of university in demonstrations and if not available than use ICAR/IARI varieties
- 33.5.2 Demonstrations on hill millets should be taken in tribal area
- 33.5.3 All KVK must made an efforts so that farmers should book their seed well in

- advance at university centers for easy and timely availability.
- 33.5.4 All KVKs should work in close vicinity to line departments and NGOs
- 33.5.5 University products viz., bio-fertilizers, bio-pesticides, fruit fly trap and novel plus/pro liquid fertilizers should be available at all KVKs, all the year round on regular basis.
- 33.5.6 University recommendations should be made available on social platform
- 33.5.7 Work on drone technology/natural farming should be initiated at university level as early as possible.
- 33.5.8 Training/workshop for line department at university should be kept preferably in the month of April-May.
- 33.5.5 All departmental staff should be present at the time of presentations of KVKs for better transmission of recommended technologies in the benefit of farming community and also for incorporating the same in departmental schemes.

Formal vote of thanks proposed by G.B. Kalariya, NAU, Navsari.

All concerned were requested to send the item-wise action taken report pertaining to their centres/offices on the proceeding so the meeting by e-mail ID: tvs@nau.in, latest by date 30-12-2022.

No.NAU/DEE/D-1/4014-4125/2022  
Navsari, Date:25/11/2022

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

**CFWR to**

1. All University officers of NAU, Navsari
2. All Heads of Unit/Sub-Unit offices of NAU, Navsari
3. All the concerned scientists/professors of NAU, Navsari
4. Joint Director of Agriculture, Surat/Vadodara
5. Joint Director of Horticulture, Surat
6. District Agricultural Officer, Navsari/Valsad/Bharuch/Surat/Narmada/Tapi/Dangs
7. Deputy Director of Horticulture, Navsari/Valsad/  
Bharuch/Surat/Narmada/Tapi/Dangs
8. All the progressive farmers who attended the ZREAC meeting