

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

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**Proceedings of 31<sup>st</sup> virtual meeting of Zonal Research and Extension Action Committee  
(ZREAC) held on 06<sup>th</sup> October, 2020 at IT Servers Room, ABMI, NAU, Navsari**

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**Chairman** : Dr. S.R. Chaudhari, Hon'ble Vice-Chancellor, NAU, Navsari.  
**Co- Chairman** : Dr. K.A. Patel, Director of Extension Education, NAU, Navsari  
**Rapporteurs** : (1) Dr.K.A.Shah (2) Dr.S.R.Salunkhe

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

At the outset, Dr. G.B. Kalariya, Training Associate (P.P.), T&V system, DEE, NAU, Navsari welcomed the dignitaries, officials of the line departments, University scientists and farmers.

Dr. K.A. Patel, Director of Extension Education, NAU, Navsari also welcomed all the members and delineated about the objectives and importance of ZREAC in special reference to feedback mechanism. He appealed the officials of the line departments, University scientists and extension functionaries to work together in convergence mode for reaching to the large number of the farmers in South Gujarat.

Shri K.S. Patel, Joint Director (Agriculture), Surat. He urged the scientists for strengthening the R&D activities on farmers need base problem and (fall armyworm (FAW, *spodoptera frugiperda*) problem. He appealed staff of the line department (Talati & Gramsevak) to proper reach agriculture scheme to the farmers. He also emphasis on promotion of organic farming and natural farming. He outlined the sugarcane single eye bud technology, SRI method of paddy and nursery management technologies to the farming communities.

Dr. M.M. Patel, Joint Director (Horticulture), Vadodara. He appealed the university scientist and line department officers to give technical guidance and new agriculture policy information to farmers. He shared the information about the drainage problem in standing crop of South Gujarat region. He suggested to the university to release the water resistance variety of field crops. He also emphasis on SPNF farming and training on Jeevamrut, Ghan Jeevamrut and Panchagavya under close supervision of NAU, scientist. He appreciated work of line department officers and KVKs' scientist.

Dr. R.H. Ladani, Joint Director (Horticulture), Surat. He urge the build strong marketing channels. He also focuses on maximum export of fruit crops and vegetable crops. He suggested to adopt new technologies i.e. drip irrigation and mulching in vine vegetable at farmers field. He shared the problems on major pest (Hoppers and Thrips) attack on mango, wilt in banana, and virus in vine vegetable in South Gujarat. He suggested to develop resistant variety and scientific package of practices. He informed house, maximum area of dragon fruit cultivation in dang district. He also suggested that NAU scientists give the scientific guidance of fig cultivation and maximum cultivation of Apple, Guava and Ber in dry area of cluster.

Dr. M.G. Prajapati, Deputy Director (Animal Science), Navsari. He urge to

organize animal husbandry campaign and organize khedut shibir on seven steps of khedut kalyan animal husbandry and other horticulture, agriculture scheme in South gujarat region.

In his presidential addressed Dr. S.R. Chaudhari, Hon'ble Vice-Chancellor, NAU, Navsari emphasized on empowering the farmers to make farming as competitive, profitable and remunerative. He urge to the scientist to organize the programme about betterment of farming community and mitigate the actual field problem. He suggested to collect the question from line department officers, Project Director ATMA and other offices and classify as per subject and solves the query. He urge KVK scientists to transfer the new technology to the farmers (Lab to Land) and organize the ICAR new technology demonstration at farmers field. He shared his view on usefulness of farmer-scientist interaction programmes in solving the location specific problems.

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

With the permission of Chair, Dr. G.B. Kalariya, Training Associate presented the action taken report of 30<sup>th</sup> ZREAC meeting and house approved the same.

#### **► Session II: Technical Session**

### **31.2: Discussion on Recommendation and Presentation of Feedback by DAOs, Officers of Line Departments**

#### **31.2.1 Recommendation Session:**

Scientists of various disciplines *viz.*, Crop improvement, NRM, Plant protection, Horticulture, Forestry, Agril Engineering, Animal Health, Animal Production and Fisheries presented the farmers recommendations approved during 16<sup>th</sup> Combine Joint AGRESKO 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.

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

The DAO, Tapi presented report of seven districts *viz.*, Navsari, Valsad, Dangs, Surat, Tapi, Bharuch and Narmada. The report 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.

31.2.2.1 University certified seed should be available at regional level.

Scientist, Mega Seed Unit, Navsari suggested to contact well in advance.

31.2.2.2 Single eye bud technology in Sugarcane crop

Research on Single Eye bud technology already started based on previous ZREAC feedback.

31.2.2.3 Feasibility of sugarcane planting in month of August

Main Sugarcane Research Station, Navsari is not in favors of the sugarcane planting in the month of August.

31.2.2.4 University recommendation on drip irrigation in sugarcane crop

University recommendations on drip irrigation are available on sugarcane.

31.2.2.5 Management of Fall Army Worm in maize and army worm in paddy at latter stage.

House suggested need base capacity building programmed in affected area.

(**Action:** All DAO & All KVK, South Gujarat)

31.2.2.6 Prepared farm literature on cultivation of hybrid rice variety and put on NAU web site.

(**Action:** Asso. Res. Scientist, Regional Rice Research Station, Vyara)

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

Shri Dinesh Padaliya (Deputy Director of Horticulture), Surat presented the report on horticultural development in all seven districts of South Gujarat. He said there is a research need in the field of new crops likes strawberry and dragon fruit cultivation for organic farming and their marketing. House appreciated the information provided during his presentation. House suggested following points.

31.2.3.1 Need of training/khedut *shibir* on pest management in mango and ultra high density plantation in mango. (**Action:** JDH, Surat & All KVK, South Gujarat)

31.2.3.2 If possible prepared the folder/leaflet based on available literature on cultivation of dragon fruit. (**Action:** Dept. of Fruit Science, ASPEE,)

31.2.3.3 More virus problem in vine vegetable in Tapi District.

House suggested to contact Dept. of Pathology NMCA, NAU, Navsari, whenever the disease crops are available in the field. (**Action:** DDH, Tapi)

31.2.3.4 Jointly organize the visit of Strawberry and Dragon fruit field in Dang District.

(**Action:** DDH and Dept. of Fruit Science, ASPEE, NAU, Navsari)

31.2.3.5 If possible prepared literature on cultivation of Orchid.

(**Action:** Dept. of Floriculture, ASPEE, NAU, Navsari)

► **Session III: Presentations by officers from other Departments- Nil**

► **Session IV: Farmers feedback & presentation by SS&H, KVKs, NAU, Navsari**

### 31.4.1 **Farmers feed back**

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

**31.4.1.1** Shri Ranjitbhai (Tapi District) shared his experience about fodder Sorghum Variety CSV- 21F and GFS 6 demonstrated by KVK-Tapi. He informed that demonstrated varieties have board leaf and good plant height as compared to traditional local variety. Also shared his experience in dairy farm improvement due to continuous guidance provided by KVK Scientists at regular interval.

**31.4.1.2** Shri. Govindbhai (Dang District) shared his experience in low cost green house, seedling production in plug stray nursery and preparation of Jivamrut/ Amritjal/ Panchgavya/ Vermicompost and other technologies of organic farming.

**31.4.1.3** Shri. Nayanbhai Patel (Surat District) shared his experience on cultivation of vegetables like, pointed gourd GNPG-1 and Little Gourd-GNLG-1. He also appreciated of NAU varieties of paddy and sugarcane with special references to CoN-13073 provided by KVK, NAU, Surat.

**31.4.1.4** Shri Rakeshbhai Vasava (Bharuch District) shared his experiences on benefit got from the activities of KVK-Bharuch. He informed that he has undergone training imparted by KVK. He told that farmers of Bharuch district are benefited with nursery

saplings especially onion, brinjal, tomato, chili.

Dr. K.A. Pated, DEE, NAU, Navsari has appreciated the nursery activity of KVK, Bharuch.

**31.4.1.4** Shri Mathurbhai Vasava (Narmada District) informed that new crop varieties reached to farmers' field. He started to grow crops scientifically under guidance of KVK. Selling of vegetable seeding has been started at KVK. He informed that because of heavy rainfall cotton, pigeon pea inhibits the growth & development and paddy lodging due to heavy rainfall at later stage.

**31.4.1.5** Shri Jitendrabhai Patel (Valsad District) shared his experiences on due to climate change *i.e.* cloudy weather, frost *etc.* the inflorescence of mango get blackish in color and it has adverse effects on fruit setting.

**31.4.1.5** Shri Parimalbhai Desai (Navsari District). He shared his experiences on organic farming in different crop.

#### **31.4.2. Krishi Vigyan Kendras**

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

##### **31.4.2.1: KVK, Navsari**

**31.4.2.1.1** Popularized Banana sap (Novel, Novel plus and Novel-Pro) and other bio-fertilizer, bio-pesticide input. **(Action: All KVK)**

**31.4.2.1.2** Small hand tools use on drudgery reduction technology for farm women **(Action: All KVK)**

**31.4.2.1.3** For the detail technology on organic farming KVK Navsari contact & discuss with Dept. of Chemistry, ASPEE, NAU, Navsari **(Action: KVK, Navsari)**

**31.4.2.1.4** For the management of stem cracking or bark splitting in mango. House suggested to organize training programme with Dept. of Plant pathology **(Action: KVK, Navsari)**

##### **31.4.2.2 KVK, Tapi**

**31.4.2.2.1** Popularize compost/vermi-compost technology in farming community **(Action: All KVK)**

**31.4.2.2.2** Promotion of Mushroom production & nursery management **(Action: KVK, Tapi)**

##### **31.4.2.3 KVK, Surat**

**31.4.2.3.1** Establishment of possible demonstration unit at KVK farm **(Action: KVK, Surat)**

##### **31.4.2.4 KVK, Narmada**

**31.4.2.4.1** Promote up scaling of proven technologies by coordinating with line departments. **(Action: KVK, Narmada)**

**31.4.2.4.2** Popularize Integrated Farming System for income generation of farming community. **(Action: KVK, Narmada)**

##### **31.4.2.5: KVK, Waghai**

**31.4.2.5.1** Integrated farming system should be popularized

**31.4.2.5.2** Organic farming/Natural farming component should be incorporated in training programme. (Action: KVK, Waghai)

**31.4.2.6: KVK, Ambheti** -NIL-

**31.4.2.6 KVK, Bharuch**

**31.4.2.6.1** More emphasis should be given on value addition of fruit crop viz., Banana, Papaya etc.

**31.4.2.6.2** Farm mechanization in orchard crop (Action: KVK, Bharuch)

The meeting was ended with vote of thanks to the chair by Dr. G.B. Kalariya, Training Associate (Plant Protection), T&V System, NAU, Navsari.

Moreover, all concerned were requested to send the item-wise action taken report pertaining to their centres/offices on the proceedings of the meeting by e-mail ID: tvs@nau.in, latest by date 30-12-2020.

Sd/-

No. NAU/DEE/D-1/2530-2619 /2020  
Navsari, Date: 27/10/2020

**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/Vadodara
6. Regional Joint Director (Veterinary), Vadodara
7. District Agricultural Officer, Navsari/ Valsad/ Bharuch/ Surat/ Narmada/ Tapi/ Dangs
8. Deputy Director of Horticulture, Navsari/ Valsad/ Bharuch/ Surat/ Narmada/ Tapi/ Dangs
9. Deputy Director of Animal Husbandry, Navsari/ Valsad/ Bharuch/ Surat/ Narmada/ Tapi/ Dangs
10. All the progressive farmers who attended the ZREAC meeting