

Directorate of Extension Education
Navsari Agricultural University, Navsari – 396450

Proceedings of 32nd virtual meeting of Zonal Research and Extension Action Committee (ZREAC) held on 05th October, 2021 at Conference Hall, University Bhavan, NAU, Navsari

Chairman : Dr. Z.P.Patel, Hon'ble Vice-Chancellor, NAU, Navsari.

Co- Chairman : Dr. C.K.Timbadia, Director of Extension Education, NAU, Navsari

Rapporteurs : (1) Dr.K.A.Shah (2) Dr.Sumit R.Salunkhe

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

At the start, 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. C.K. Timbadia, 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 emphasized on Navsari agricultural university technology such as novels, biofertilizers, biopesticides and fruit fly traps reach to the grass root level and farmers field. He emphasized on drainage and irrigation technology for sugarcane and vegetable crop. He focused on KVK, ATMA and line department work for betterment of farming community. He outlined the FPO formation strategy to solve the market problem of south Gujarat. He briefed about low cost technology on climber vegetable and fruit crop through KVK, ATMA and line department. He also emphasized on urgent need of research on Natural Farming by NAU's scientists. He applauded the South Gujarat KVK activities such as KVK Tapi in SHGs and drudgery reduction, KVK Surat terrace gardening, KVK Navsari in organic farming and KVK Narmada in mushroom technology. He urged the farmers to use waste decomposer and cow slurry in farm.

Shri K.S. Patel, Joint Director (Agriculture), Surat stressed the cropping pattern and rainfall of South Gujarat. He outlined about white fly and labour problem during Covid-19 situation in sugarcane crop. He underlined about the single eye bud technology in sugarcane crop. He focused on farm mechanization in farming sector of South Gujarat. He stressed on the 20 thousand farmers joined the natural farming in Dang district. He emphasized on organic farming scheme implemented in all seven districts of South Gujarat. He highlighted that the pink boll worm in village Umarpada and Bharuch district.

Shri Dinesh Padaliya, Deputy Director of Horticulture, Surat outlined the new agriculture scheme (Saat Pagala Khedut Kalyan Yojana) reach to the grass root level. He stressed on mulching technology in banana, papaya, water melon, strawberry and vegetable crops. He also briefed about more area covered in dragon fruit crop cultivation in South Gujarat. He focused on post harvest technology, cold storage and ripening chamber. He emphasized on centers of excellence for different demonstration of crop. He briefed about “ Saat Pagala Khedut Kalyan Yojana ” for “ Chhatri Yojana” and “Vanbandhu Scheme” for

plug nursery in vegetable seedling.

Dr. Vikas Naik, Associate Director Research, NAU, Navsari. He emphasized on cropping pattern on paddy, sesamum and castor for doubling the farmers' income through FLDs, Training and awareness camp at farmers field. He focused on transfer of technology too.

In his presidential address Dr. Z.P. Patel, Hon'ble Vice-Chancellor, NAU, Navsari emphasized on solved the farmers' problems in scientific way. He applauded the KVK, ATMA and line department work for betterment of farming community. He outlined reach the new technologies, new varieties, recommendation and front line technologies through KVK to the grass root level. He underlined about farmers' feedback and experiences of university technology. He stressed on restriction of high assumption crop for maintain the sustainability. He emphasized on research on water management efficiency and makes a literature reach to the farmers' field. He brief about restructure format of ZREAC report. He emphasized to reach the university technologies in remote area and up to end user of South Gujarat.

32.1: Presentation of Action Taken Report:

With the permission of Chair, Dr. G.B. Kalariya, Training Associate (P.P.) presented the action taken report of 31st ZREAC meeting and house approved the same.

► Session II: Technical Session

32.2: Discussion on Recommendation and Presentation of Feedback by DAOs, Officers of Line Departments

32.2.1 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 17th Combine Joint AGRESCO 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.

32.2.2 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.

32.2.2.1 Research on minor fruit crop viz., jackfruit and phalsa fruit.

(Action: RHRS, Aspee college)

32.2.2.2 University recommendations require for preparing area-based scientific cultivation practices for Dragon Fruit cultivation.

Already prepared and put up on NAU, website.

32.2.2.3 Research on single eye bud technology in sugarcane crop.

Research is going on at MSRS, NAU, Navsari

- 32.2.2.4 Research on whitefly in sugarcane crop.
House suggested to follow available IPM technology.
- 32.2.2.5 Provide paddy seed (Lal kada gold, Safed dudhi) at local level.
(**Action:** Mega seed, NAU, Navsari)
- 32.2.2.6 Research on management of fall army worm in maize.
House suggested to include management practices in KVKs' training/*khedut sibir*.
- 32.2.2.7 Research on pink boll worm in cotton.
House suggested pursue university IPM technology for management of pink boll worm.
- 32.2.2.8 University recommendations require for early flowering in mango
House suggested pursues GAP for early flowering in mango.
- 32.2.2.9 Coconut germplasm collection and planting material for new coconut variety.
(**Action:** FRS, Gandevi/AICRP, Coconut Research Project, Aspee, Navsari)

32.2.3 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.

- 32.2.3.1 university recommendations require for virus management in cucurbits
- 32.2.3.2 university recommendations require for yellow vein mosaic virus in okra
- 32.2.3.3 Necessary steps to solve the problem of fungal diseases in bananas.
- 32.2.3.4 University recommendations require for virus management in papaya
- 32.2.3.5 University recommendations require for virus management in chilli
House suggested selecting resistance variety if available and control sucking pest as well as improve the soil health for the management of above viral/soil born disease.
- 32.2.3.6 Recommendations require for exotic and niche crops to increase the area
(**Action:** RHRS, Aspee college)
- 32.2.3.7 Research on orchid cultivation
(**Action:** Dept. of Floriculture, Aspee college)
- 32.2.3.8 Recommendations require for biological disease and pest control in strawberries
(**Action:** Dept. of Agril. Ento, Aspee college/ NMCA)

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

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

32.4.1 Farmers feed back

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

- 32.4.1.1 Shri.Satish Naik (Navsari district). He stated that seed, fruit fly trap and other university technologies should be available at low-priced and give good market for organic product.

- 32.4.1.2 Shri.Mathurbhai Devajibhai Vasava (Narmada District). He apprised that lodging problem observed in Paddy GNR-6.
- 32.4.1.3 Shri.Karamsingbhai Radtyabhai Vasava (Narmada district). He declared that Marketing problem for product of Prakrutik kheti.
- 32.4.1.4 Shri Devedrasingh Singha (Bharuch District). He told that pollution problem in cotton in Bharuch area and required training on Mushroom Technology at KVK level.
- 32.4.1.5 Shri Kalpeshbhai Patel (Surat District). He notified that provide information about training and *khedut Shibir* on Banana crop.
- 32.4.1.6 Shri Chandrakantbhai Gadavi (Dang District). He demanded that mushroom seed material should available at KVK level and market provided at local level. He also focused on value addition on Nagali product.
- 32.4.1.7 Shri Ashokbhai Chaudhary (Tapi District). He apprised that training on animal science and value addition on mushroom product.

32.4.2 Krishi Vigyan Kendra

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

32.4.2.1 Krishi Vigyan Kendra, Navsari

- 32.4.2.1.1 Training on value addition of mango, sapota and dragon fruit. (Action: All KVK)
- 32.4.2.1.2 Popularize the fish cage culture technology. (Action: All KVK)

32.4.2.2 Krishi Vigyan Kendra, Tapi

- 32.4.2.2.1 Popularize drudgery reduction technology for farm women. (Action: KVK, Tapi and KVK, Surat)
- 32.4.2.2.2 Training on narrow spectrum anthelmintic for Goat, Silage bag for cow and bypass fat for Buffalo. (Action: KVK, Tapi)

32.4.2.3 Krishi Vigyan Kendra, Surat

- 32.4.2.3.1 Popularize the terrace gardening and hanging pot kitchen gardening. (Action: KVK, Surat)
- 32.4.2.3.2 Popularize the university bio-fortified variety in paddy (GNR-4,GR-15,GNR-9) (Action: All KVK)

32.4.2.4 Krishi Vigyan Kendra, Narmada

- 32.4.2.4.1 Popularize GNR-17 (Sardar) variety of paddy. (Action: KVK, Narmada)
- 32.4.2.4.2 Research on pest and disease management in poly house and green house nursery for vegetable crop. (Action: Depart. of Agril. Ento/Patho, Aspee college/ NMCA)

32.4.2.5 Krishi Vigyan Kendra, Waghai

- 32.4.2.5.1 Training on IPDM technology. (Action: KVK, Waghai)
- 32.4.2.5.2 Training on weed management in organic/natural farming & organize demonstration on Twin wheel hoe. (Action: KVK, Waghai)
- 32.4.2.5.3 Popularize the value addition on Nagali product. (Action: KVK, Waghai)

32.4.2.6 Krishi Vigyan Kendra, Ambheti

32.4.2.6.1 Management practices of fruit fly in bitter gourd. (Action: KVK, Ambheti)

32.4.2.6.2 Compulsory ICAR and NAU technology in OFT. (Action: All KVK)

32.4.2.7 Krishi Vigyan Kendra, Bharuch --Nil--

Director of Horti., Gandhinagar joined online mode. he emphasized on oil palm research at SAU level.

32.5 General feedback for all KVK/scientists

Following feedback were useful in TOT activities.

32.5.1 To organize training on preparation and testing of amrutmitti, amrutjal, jivamrut and panchgavya.

32.5.2 To establish SPNF/ZBNF demonstration unit at KVK farm/farmer field.

32.5.3 To popularize the university technology viz., biofertilizer, biopesticides, fruitfly trap and novel plus/pro liquid fertilizers.

32.5.4 To popularize Compost/Vermicompost technology in farming community.

32.5.5 To organize training on weed management in organic/natural farming

32.5.6 Management practices of fall army worms in maize and (Jawar) sorghum incorporate in training programme

32.5.7 To promote mushroom production technology & nursery management.

32.5.8 Increase awareness among farmers for judicious use of fertilizers, chemicals, herbicides and insecticides

32.5.9 Experiences of progressive farmers regarding the organic farming/natural farming should be share to other farmers.

32.5.10 To guide & support in selling of products from SPNF/organic farming

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

Hence, 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 30-12-2021.

No. NAU/DEE/D-1/3865-69/2021

Navsari, Date: 01/12/2021



**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