



NAVSARI AGRICULTURAL UNIVERSITY

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Date: 02/03/2015

To,
All the Members of ZREAC

Please find enclosed herewith proceeding of the 22nd meeting of ZONAL RESEARCH AND EXTENSION ACTION COMMITTEE (*Kharif*) of Navsari Agricultural University held on 3rd February, 2015.

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 22nd ZONAL RESEARCH AND EXTENSION ACTION COMMITTEE HELD ON 03rd FEBRUARY-2015 AT SARDAR TRAINING HALL, SSK, NAVSARI

The meeting was started with the warm verbal welcome by Prof. V. P. Vejpara, Programme Organizer, Directorate of Extension Education, NAU, Navsari.

Mr. K.D. Panchal, 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.

Joint Director, Department of Agriculture, Govt. of Gujarat, Vadodara Mr. M.K. Kureshi expressed his view regarding importance of research based on farmers feedback received by extension functionaries. He also has given the emphasis on rodent management for preventing Leptospirosis in south Gujarat in coordination with all concern departments.

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 has been given by the University. He advised the extension functionaries to provide benefits of government schemes 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 departments 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% but average adoption is 10% only. 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 which can be best intercrop in sugarcane. He discussed the ample scope of fisheries and agro-forestry in South Gujarat and NAU will start the fisheries College in short. He advised for research in coastal area and conservation of soil, water and environment through land configuration. Focused on novel organic liquid fertilizer and need of low cost technologies for farmers, it can be minimized residual effect through use of organic inputs.

22.1 Presentation of Action Taken Report

The action taken report on proceedings of 20th ZREAC meeting held on 7th February, 2014 was presented by the Training Associate, Directorate of Extension Education, NAU, Navsari which was approved by the house with following suggestions.

- Officers from Line Departments should also submit their Action Taken Report.

22.2 Presentation of Feedback / Farm trials by officers from Line Departments.

22.2.1 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 following suggestion.

Suggestions:

- 1) New farm trails suggestion: comparison of Michhorizae and PSB bio fertilizer on paddy yield: Instead of PSB use Azospirillum
- 2) For feasibility of farm mechanization, DAO write a letter to Agri. Engi. Department to remain present at the time of farm mechanization demonstration.

(Action: DAO, Navsari)

Feed back:

1. For control of weed in garden lawn, first identified the weeds with collaboration with Agronomy scientist and further necessary action.

(Action: Department of Agronomy, N.M. C. A. Collage, NAU, Navsari)

2. Conduct inservice training programme at KVK, Navsari on peri urban kitchen garden.

(Action: DAO, Navsari)

22.2.2 DAO, Valsad

The District Agricultural Officer, Valsad 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.

Suggestions :

- 1) Farm trial on castor (Seeds supply by NAU, Navsari) and Niger
- 2) Farm trial on use of bio fertilizer and its impact on "Ragi" (Guj. Nagali-6)
- 3) Provide farmers list of potato growers to KVK
- 4) Instead of hybrid rice promote GNR-3 improved variety of NAU, Navsari
- 5) Farmers and company name of hybrid tur should provide to Research scientist pulses, NAU, Navsari
- 6) Farm trial on hybrid paddy and tur , select Paddy Hy. 6444 and Tur- Varsha

(Action: DAO, Valsad)

Feed back:

1. Fruit fly damage in vine vegetables: Suggested to use the Methyl eugenol trap (Nauroji trap)

(Action: DAO, Valsad)

22.2.3 DAO, Dangs

The District Agricultural Officer, Dangs 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.

Suggestions:

- 1) Conducting “Khedut Shibir” to bring awareness on disease in paddy and resistant variety
- 2) Farm trail specified Ragi variety
- 3) Promote organic horticulture

(Action: DAO, Dang)

Feed Back:

1. Developed new hybrid variety of vegetable crops.

Vegetable comprise large number of crops. It is not possible to work on all the vegetable crops. However the University making effort to find new variety and work has been going on brinjal, chilli, tomato, pointed gourd and little gourd.

22.2.4 DAO, Surat

The District Agricultural Officer, Surat 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.

Suggestions :

- 1) Cluster basis implementation of IPM modules in vegetable crops along with KVK, Surat.
- 2) Conduct farm trial on sugar cane variety.

(Action: DAO, Surat)

Feed back:

1. Research on hybrid variety in vegetable

Vegetable scientist initiated work and making effort to find suitable hybrid variety in vegetable.

2. Developed variety same as Nizar goti for kharif season

(Action : Research Scientist. Main Sorghum Research Station, NAU, Surat)

3. Liquid bio fertilizer (N, P, K) in a mixed/combination form for overall growth and development of crop or else in single kit will help the farmers.

Professor, Department of plant Pathology developed this kit and it will be available in short time.

22.2.5 DAO, Bharuch

The District Agricultural Officer, Bharuch presented the district profile, area, production and productivity of different crops, results of Farm trails and feedback for research. The house not made any suggestions.

Feed back:

1. Formation of progressive farmers group and preparation of video clip of success stories of farmers and sent through whats app.

(Action: All KVK in collaboration with IT cell NAU, Navsari)

2. Pink bollworm problem in cotton. (**Action: Research Scientist, MCRS, NAU, Surat**)
3. Demand of Soyaben variety JS-335: University produced seed depending upon the demand.

22.2.6 DAO, Narmada

The District Agricultural Officer, Narmada 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.

Suggestions :

- 1) Conduct farm trial on “Ragi” (Guj. Nagali- 6)

Feed back:

1. Conduct awareness camp or Khedut shibir on use of potash fertilizer in vegetable and pheromone trap in cotton.
2. Problem of sugar cane white fly : Use of IPM and sugar cane white fly trap developed by Dept. of Entomology NAU, Navsari

(Action: DAO, Narmada)

3. University not recommended potassium fertilizer in cereal crop even though farmers are using potassium fertilizer and got more yield.

(Action: Department of chemistry, N.M.C.A., NAU, Navsari)

22.2.7 DAO, Tapi

The District Agricultural Officer, Tapi 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.

Feed back:

1. Problem of pest and disease in okra: Organized khedut shibir on Okra for awareness on scientific cultivation of Okra with KVK **(Action: DAO, Tapi)**

22.3 Farmer's feed back

22.3.1 Bantubhai.M. Gayakwad, Dist: Dang

1. He is a paddy cultivating farmer and obtained good yield by adopting improved variety and intervention of KVK
2. He urged the scientific community to develop scientific practices in paddy cultivation and easy and effective weed management in paddy

22.3.2 Ghanshyambhai patel, Nizar taluk, Dist:Tapi

1. Papaya leaf curl virus and papaya ring spot virus become a menace in papaya. It is becoming a major problem in the district there by many papaya orchards are going to vanish therefore scientists have to take immediate action against this problem

(Action: Organized khedut shibir on Papaya cultivation in collaboration with KVK, Tapi.)

2. There is no specified recommended dose of water soluble fertilizer (RDF) for fruit vegetable crops like watermelon and muskmelon. Therefore please specify the recommended dose of water soluble fertilizers to avoid excessive use of fertilizers. Thus the input cost for farmers will be reduced considerably.

(Action: Research Scientist Vegetable, NAU, Navsari)

3. Major nutrients like N,P,K and bio fertilizer and bio-pesticides in a mixed/combination form for overall growth and development of crop or else in single kit will help the farmers.

Professor, Department of plant Pathology developed this kit and it will be available in short time.

22.3.3 Pinakinbhai Kantila Patel village sadlav Dist: Navsari

1. He urged the Govt official on time availability of battery operated pump.
2. Authentic source for availability of large quantity of Gypsum for soil reclamation purpose.

22.3.4 Choudhari Satishbhai Dist: Narmada

1. He is cultivating muskmelon and banana in his field and shared his experience about fertilizer management in vine vegetables.

22.4. Presentation of Feedback / Farm trials by officers from Horticulture Departments

22.4.1 DDH, Surat

Deputy Director, Horticulture, Surat presented a report of Surat. He presented area, production and productivity of horticulture crops in Surat.

22.4.2 DDH Bharuch

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

22.5 Presentation of 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 following suggestion

- 1) In Home science training especially in vocational training, house suggested involvement of women as well as men farmers.

(Action: KVK, Navsari)

Feed back:

1. Find out the bacterial strength to reduce/ minimize salt in soil

(Action: Professor, Department of plant Pathology, Navsari)

2. Effect of potassium nitrate on flowering, yield and quality of mango.
3. Effect of soluble fertilizer spray on mango.

(Action: Research Scientist, AES, Pariya.)

4. To evaluate suitability of minor fruit crops like apple ber, guava and jack fruit variety of other climate zone.

(Action: Research Scientist, RHRS, NAU, Navsari.)

21.5.2 KVK, Vyara

Programme Co-ordinator, KVK, Vyara has presented the progress report and action plan. House has made following suggestion

- 1) FLD's on use of Banana pseudostem sap on okra
- 2) Survey work done in pale yellow gall like swelling on okra fruits

(Action: KVK, Vyara)

Feed back:

1. Bitter guard virus problem
2. Papaya ring spot virus problem

House suggested to organized training programme on IDM for Bitter guard virus and Papaya ring spot virus in collaboration with Department of Plant Pathology, NMCA, NAU, Navsari.

(Action: KVK, Vyara)

21.5.3 KVK, Waghai

Programme Co-ordinator, KVK, Waghai presented the progress report and action plan. House has not made any suggestion.

Feed back:

1. Suitable variety of tomato under net house condition during kharif season.

Net house comprise a large number of technology. University make effort to cover important vegetable crop and work has been initiated.

2. Farmers demanding low prize hybrid variety in paddy.

University variety NAUR-1 has been available its performed as equal as hybrid and now a day available in small packing.

21.5.4 KVK, Dediapada

Programme Co-ordinator, KVK, Dediapada presented the progress report and action plan. House has not made any suggestion.

Feed back:

1. Incidence of sugar cane white fly and pyrilla were found in new plantation of sugar cane
Recommendation has been made for effective management of white fly and pyrilla.
2. Incidence of stem borer in brinjal was found in Pansar, Besna, Motasukaamba and Motisingloti village.
Recommendation has been made for effective management of stem borer in brinjal.
3. Proper sowing time for banana
Recommendation has been made for proper sowing time for banana.

21.5.5 KVK, Surat

Programme Co-ordinator, KVK, Surat presented the progress report and action plan. House has not made any suggestion.

Feed back:

1. Stem weevil infestation was observed in cotton (Bt.)

(Action: Research Scientist, MCRS, Surat)

21.5.6 KVK, Ambheti: Absent

21.5.7 KVK, Chaswada

Programme Co-ordinator, KVK, Surat presented the progress report and action plan. House has not made any suggestion.

Feed back:

1. Incidence of pink ballworm in Bt. cotton.
Different insecticides has been recommended for effective management of ball worm in cotton.

21.6 AES - Paria

Assistant Research Scientist, AES, Paria has presented a report and action plan. House has not made any suggestion.

21.7 General suggestions

21.7.1 If fund is not available to conduct farm trial Department farm trial must be conducted in coordination with PD, ATMA **(Action: All DAOs)**

21.7.2 Demand for seed should be placed well in advance to concern Research scientist or to the Mega Seed Project, NAU, Navsari. (Action: All DAOs)

21.7.3 All KVK should include field problems in training programme as per farmer need. (Action: All PCs, KVK)

21.7.4 All KVK should include awareness on pesticides residue in training programme. (Action: All PCs, KVK)

21.7.5 Training programme on rat control and awareness on Leptospirosis disease for Agriculture department in collaboration with all district health department.

(Action: college of veterinary, NAU, Navsari)

The meeting ended with a vote of thanks by Dr. G. B. Kalariya, Training Associate (Plant protection) Directorate of Extension Education, NAU, Navsari.