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K.G.D.M. Arts, Comerce & Science College, Niphad

Department of Botany

Visit Report :- T.Y Bsc

Krishi Vigyan Kendra at Yashwantrao Chavan Maharashtra Open university Nashik.

Submitted by :- Kanale Bhagyashri Dilip

Exam No :

External Examiner

Internal Examiner.

Yashwantrao chavan Maharashtra open university.

The university was established on 1st July 1989 through Act xx of the Maharashtra State Legislature, justly named after yashwantrao chavan Maharashtra's great political leader and builder of modern Maharashtra.

Due to statutory powers conferred by an act xx (1989) of Maharashtra state legislature and the recognition by the 'university Grants commission of India. this university is fully empowered to award various academic certification like certificates, diplomas, and graduate post-graduate, doctoral degrees. this university also takes all precautions at all programme stages from 'curriculum Design' to 'examination' to ensure that the standard and quality of education and examination are preserved.

Krishi vigyan kendra at Yashwantrao chavan Maharashtra open university Nashik

The Indian council of Agricultural Research [ICAR] New Delhi has established the krishi vigyan kendra at Yashwantrao chavan Maharashtra

open university Nashik in 1994. It is an innovative farm science institution providing training and information services to the farmers and agribusiness managers. The kvk acts as a vocational training center to work at grass root level and to impart need based training and skills in the field of agriculture and ~~the~~ rural development.

Broad objectives of the kvk are

- To test and refine the technologies at farmers field through on farm testing (OFT)
- To demonstrate various agro techniques on farmers field through front line demonstration (FLD)
- To organize various need based vocational & professional training programs for the practicing farmers, Rural Youths.
- To organize trainings for knowledge & skill updating for extension ~~fwt~~ functionaries.

Besides these major objectives the Krishi vigyan kendra is to establish Model farm to disseminate and demonstrate the agro techniques suitable & useful to the local situations and as per the requirement of the farming community in the district for the sustainable development Looking into the micro and marginal Land Holding the suitable and long duration horticulture based cropping systems are being demonstrated with variety of fruit crops.

the suitable and most useful Sustainable agro techniques are demonstrated and disseminated through different field demonstration, training cum production units and Laboratories.

following facility and services are available at KVK.

Horticulture Nursery

considering the increasing demand of fruit grafts from the farmers of district it was decided to establish a horticultural fruits plants Nursery in the year 1997-98. production capacity of unit is 75000 graft per year the grafts seedlings of improved varieties of Mango, Pomegranate, Guava, Sapota and Drumstick are produced in the Nursery.

Hot humid climate is necessary for the hardening of newly grafted plants hence, polyhouse and shade houses are erected and equipped with misters and fogging system creating microclimate these system increase the success rate and up to 70% of grafts. this nursery is popular for reliable source for planting material in the district and in the state.

Soil water Testing Lab.

production and productivity is closely associated with the fertilizer use and available plant material nutrient in the soil indiscriminate and non judicious use of fertilizers is led to degradation of soils reductions in production of crops. To minimize this problem soil & water testing is practiced and according to recommended dose of fertilizer is given to maintain the production and productivity All FLD are being supported with the soil test based fertilizer management & soil health cards are being given to all the farmers. this facility is being used for the farmers & other Goverments and non-government organizations.

Post Harvest processing Laboratory

Nashik district is known for its good quality grapes.. pomegranate, onion and variety of vegetable crops. which are playing important role in domestic market and export which helps to strengthen the economy. It was also observed that the post handling losses are major constraints in fruits, vegetable and flowers. In order to minimize the losses training program on PHT are planned and conducted. Similarly Small-scale post Harvest processing project is being demonstrated. medium duration training programs for the rural youths are being conducted during 2002-07

Bio-control Lab

one of the important source for the pest management in the integrated farming system is use of various bio-control agents for the insect and disease management. the KVK also established the bio-control agent production unit & producing more than 500 kg of various bioagents annually like verticillium, trichoderma pacilomyces, Baveria, Namoria, which are being used to manage the various pests in KVK leads to save

more than RS. 50000/- annually Similarly the product in sold to the farmers.

Vermiculture Biotechnology

a unique feature to recycle the agro waste is being demonstrated through the vermicompost production technology. more than 60 culture production units are being established of various places in the district.

Similarly KVK is having commercial vermicom-post unit on 3000 Sq. feet area with annual production capasity of 80 tons. which led to Saving of 800 tons of vermicompost casting of RS. 3200 lakh in last 10 year. Similarly the units established in the district are producing about 500 tons vermicom-post every year casting RS. 16.00 lakh on farmers field.

Farm Mechanization.

Considering importance of farm machiney in small and morginal land holders a scheme on farm implementation is given by the ICAR units from Central Institute of agricultural Engineering (CIAE) Bhopal following instruments are being demonstrated on farmer's field and proven very popular in respect

of time saving and labour saving.

① The goal of the university is to become a mass varsity.

② Tractor drawn ferti-seed drill

③ cleaner cum grader

④ Groundnut decorticator

⑤ Groundnut stripper

⑥ Hand hoe

⑦ multi crop planter.

out of these cleaner cum grader, Groundnut stripper and decorticator are very useful in drudgery reduction and popular in women.

Auto weather station

Agriculture production in india is highly dependent on the natural rainfall. pest and diseases occurence due to various climatic change is a serious problem in fruits and vegetables. To minimize and to predict the rainfall and associated factor to protect the crops a forecasting is essential. for this the automatic weather recording station is being established by the govt of India which will help to give medium to short term weather forcasting in near future.

similarly a disease forecasting unit useful for grapes will be established in June 2009.

Agriculture Informatics & farmer Advisory Services →

one of the important aspect of the success of various activities is providing proper and quality services to the farmers. farmers from the district and adjoining area are regularly visit to avial the information regarding agriculture. Horticulture Dairy, poultry Mechanization and plant protection Soil nutrition management aspect average 8-10 farmers daily visiting and benefited similarly farmers from adjoining district & other states are visiting & seeking advise for various crops.

KVK model farms -

A model farm with important Horticulture and other crops is developed to cater the need of farmer from the district with modern irrigation system. A new experiment with high density plantation, multi-stored cropping and high tech Floriculture, use of biotech techniques for the pest management, vermiculture biotechnology

and modern nursery with various shed net house to metal meet the training need & supply the planting material to the farmers. farm mechanization with various tractor drawn implements, powers tillers, Dry land horticulture with watershed development through the Agro forestry soil & water conservation techniques. wasteland development through the agro forestry project. Non-conventional cropping system with exotic crops like avocado & landscaping with the ornamentals.

To demonstrate various agricultural and horticultural technologies & to motivate the farmers to accept new production techniques. krishi vigyan kendra, Nashik developed 80 acres Modern horticulture farm in YCMOU campus. the orchards consisting high yeilding & improved varieties of Mango, Grapes, Sapota, Guva, Aonla, cas Kyhew nut, Litchi, Coconut, custard apple. All the borders of farm are planted with coconut & Jackfruit.