



**Department of Vegetable Science
ASPEE College of Horticulture
Navsari Agricultural University
Navsari – 396 450 (Gujarat)**



ACTIVITIES AND ACHIEVEMENTS of the DEPARTMENT

Research Schemes in Operation

Sr. No.	Name of the projects	Budget Head	Name of Funding Agency	Name of the Department
1	Research in vegetable crops under protected conditions-Phase-II	12017	Govt. of Gujarat Development Charges	Vegetable Science
2	Research and Development in Vegetable Crops (12013 Merged)	12021	Development Charges	Vegetable Science
3	AICRP on Tuber Crops	2006-3	ICAR-CTCRI	Vegetable Science
4	AICRP on Vegetable Crops Voluntary Centre	2058	ICAR	Vegetable Science
5	Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops	14054	RKVY	Vegetable Science
6	Revolving Fund	9510-N- 93	RF	Vegetable Science

Objectives of the schemes

1. Research in Vegetable Crops under Protected Conditions Phase-II (BH: 12017)

Objectives:

- To identify cultivars ideal for protected cultivation.
- To standardize the Production technology for vegetable crops under protected conditions.
- To train and demonstrate farmers in developed technologies.

2. Research and Development in Vegetable Crops (BH: 12021)

Objectives:

- To develop high yielding varieties/hybrids with resistant to pest and diseases in vegetable crops.
- To develop production technology in different vegetable crops.
- Quality seed/planting material production of varieties/hybrids.

3. AICRP on Tuber Crops (BH: 2006-3)

Objectives:

- Collection of germplasm of tuber crops from different region of the country particularly from the tribal/hilly areas and maintaining them as field gene bank
- Evaluation of germplasm for economically important traits including high yield, starch, carotene, short duration, tolerance/resistance to biotic and abiotic stress and sharing of promising entries among the centers
- Carrying out regional/location specific research to identify improved high yielding varieties suitable to different agro-climatic conditions

- Standardization of suitable agro-techniques and cropping systems for improved varieties of different tuber crops in different regions, so as to enhance the productivity
- Evolve suitable and effective management tactics for major pests and disease of tuber crops
- Popularize and create awareness on the importance and nutritional aspects of major tuber crops
- Production and supply of quality planting materials of major tuber crops in liaison with State Agri/Horti. Departments and voluntary agencies like KVKs/NGOs

4. AICRP on Vegetable Crops (BH: 2058)

Objectives:

- Evaluation of different varieties and hybrids against biotic and abiotic stress in different vegetable crops.

5. Vegetable grafting to mitigate biotic and abiotic stresses in vegetable crops

Objectives:

- To screen and identify potential rootstocks against biotic and abiotic stresses in vegetable crops.
- To use resistant/tolerant rootstocks for commercial production of vegetable grafts.
- To impart training and develop entrepreneurship among greenhouse vegetable growers and students as well as youth.
- To generate an additional income by sale of grafts of important greenhouse vegetable crops

Overview of Research Trials



Pointed gourd



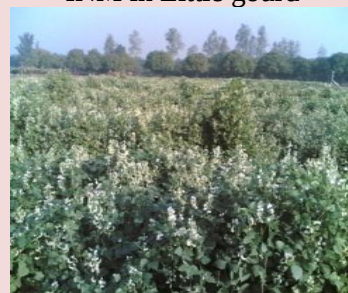
INM in Little gourd



Organic Brinjal



LSVTCow pea



LSVT Indian bean



LSVT Onion



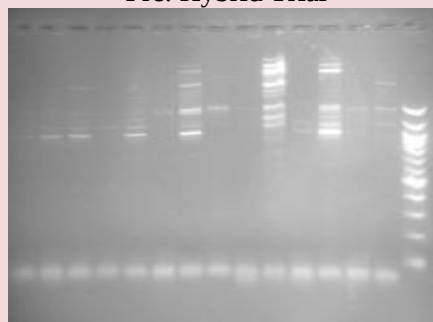
Pre. Hybrid Trial



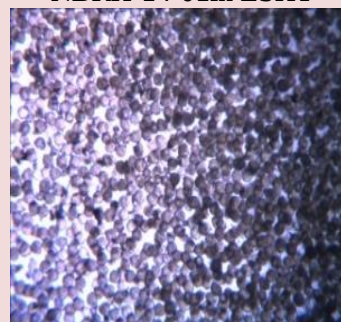
NBRH-14-01 in LSHT



NTH-15-13 in LSHT



Restorer Identification in chilli



Fertility verification in CMS based chilli hybrids



NCH -1603 in PHT



Minisett Technique for EFY



Secondary Nursery for sweet potato



Live staking in Greater Yam



Cultivar Bhukanti in MLT



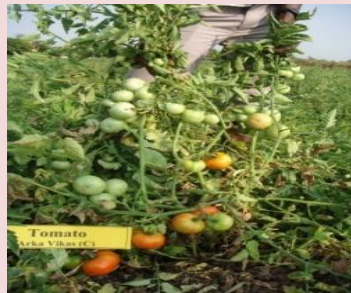
Organic cultivation
of EFY



MLT on Cassava



AVT-I (Det. type)



AVT-II (Indet. type)



IET (Cherry tomato)



AVT-I (Chilli)



IET- Brinjal (Round)



YVMV resistant AVT-I (Okra)



Training and pruning in capsicum under protected conditions



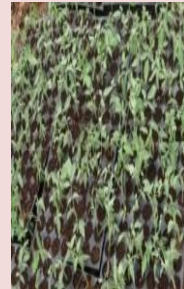
Training and pruning in tomato under protected conditions



Training and pruning in cucumber under protected conditions



Training and artificial polination in muskmelon under protected conditions



Use of pruned shoots for multiplication in cucumber and tomato:
A new Approach to reduce cost of cultivation



Grafting brinjal and tomato onto wild rootstock against biotic and abiotic stresses



Homestead utility of Microgreens for nutritional Security: Tomorrow's Technology