NAVSARI AGRICULTURAL UNIVERSITY

DEPARTMENT OF VEGETABLE SCIENCE

ACHF NAU
Let's Bloom Human Fruition

FUTURE PLANS

VISION

- Eminence of Vegetable Science in HRD and technologies.

MISSION

- Generation of Human Resources through quality learning and development of sustainable, economically feasible and environmentally safe improved technologies for vegetable crops.

MANDATE

Teaching

- UG & PG level as well as Guiding upto Doctorate level.
- Coaching classes for competitive examinations SRF/JRF/NET.
- Guidance and Motivation of students for various professional activities.

Research:

- Collection, evaluation and maintenance of germplasm of important vegetable crops *viz.*, brinjal, tomato, okra, chilli, gourds and tropical tuber crops.
- Developing high yielding, disease and insect-pest tolerance varieties / hybrids of vegetable crops with better quality.
- Developing improved production technology in various vegetable crops for open and protected cultivation.
- Production of seeds / planting materials of various vegetable crops.

Extension

- Participation in *Krishi Mahotsava*- a flagship programme of GoG, Gandhinagar, Gujarat from 2005 onwards.
- Organizing vegetable exhibition-cum-competition, Farmers' training, *shibir* etc.
- To disseminate ToT through publications.
- TV telecast and radio talks on various aspects of vegetable crops.
- "*Mera Gaon Mera Gaurav*" programme related activities under the guidance of DEE, NAU, Navsari.

SWOT Analysis

STRENGTH

- Diverse and distinct climate as well as soil of the state is highly suitable for cultivation of an array of vegetables.
- More nutritive and therapeutic values and being high remunerative as compared to field crops.
- Scope of organic production of vegetable crops.
- Off-season production of vegetable crops for high remuneration.
- High export potentiality as compared to field crops.
- Highly qualified faculty and well-equipped laboratories to develop innovative technologies.

WEAKNESS

- Poor infrastructure for sale and purchase at right time.
- Labour intensive cultivation and acute labour shortage in major parts of state.
- Higher input costs and non availability at proper stage.
- Unawareness among farmers in respect of modern production, post-harvest and marketing practices.
- Unavailability of quality planting material particularly in tuber crops.

OPPORTUNITIES

- Higher domestic and international demand due to richness in anti-oxidants, nutrients and medicinal values.
- Government of Gujarat has already declared Middle and South Gujarat as Agri Export Zone (AEZ) for vegetables and fruits Vide its Resolution No. MIS/1022001/G.57.K5 Sachivalay. Gandhinagar, dated 5-9-2002.
- Establishment of CoE (Centre of Excellence) for Protected Cultivation and Precision Farming on vegetables under Indo-Israel Agri-work Plan at Vadrad, Taluka: Prantij, District: Sabarkantha-383205.
- The export potentiality is more from the Middle and South Gujarat, as this area has assured irrigation facilities for

continuous vegetable supply.

- **The area under vegetable crops has increased by assured water availability from Sardar Sarovar Project.**
- **Vegetable are fit for precision farming, protected cultivation and other Hi-tech horticulture as well as for kitchen terrace garden.**

THREAT

- **Perishable nature of vegetables.**
- **Unstable and wide fluctuating market prices.**
- **Instability in performance of many hybrids/varieties under changing climate scenario.**
- **Irregular and erratic rainfall.**
- **Lack of long term export policy.**

FUTURE PLANS

- **Improvement in UG and PG teaching for competent manpower generation. Assigning research studies to PG students on thrust areas of the region.**
- **Establishment of a vegetable crop cafeteria for better learning among students and beneficiaries.**
- **Modernization of research labs with advance equipments and facilities for precise results.**
- **Collection, conservation and evaluation of germplasm in commercially important and under-utilized vegetable crops of this region.**
- **Development of high yielding, resistant to biotic and abiotic stresses and export oriented cultivars.**
- **Development of improved and sustainable production technologies for outdoor and indoor cultivation of vegetable crops.**
- **Use of different genetic tools for the development of hybrid in vegetable crop.**
- **Development of protocols for organic production of vegetable crops.**
- **Exploring the possibility of Vegetable Grafting and microgreens cultivation.**
- **Production of quality planting material in various vegetable crops.**
- **Providing technical knowhow of different vegetable crops to vegetable growers through demonstrations, farmers *shibirs*, publications, TV telecast and radio talk etc.**