KRUSHI VISHWA

A PUBLICATION OF
JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH
(Quarterly)

Number : 7-8 September, 2007

मधुमतीरोषधीर्द्यावि आपो मधुमन्नो भवत्वन्तरिक्षम् ।
क्षेप्रस्प पतिर्मधुमान्नो अस्त्वरिष्यन्तो अन्वेन चरेम ।।

May our vegetation be sweet, nutritious and health giving. May the rays of the sun and the moon produce sweetness all round and the water and the sky may also create sweetness for us. May our farmer produce sweet, and we avoiding injustice and injury to others, do whatever is in the interest of our farmer.

Atharva Veda, Chapter 20, Section 145, Mantra 8

: Publisher :
Director of Extension Education
Junagadh Agricultural University
Junagadh - 362 001.

Phone : 0285-2672080
PBX : 311, 341, 375
Fax & Ph. : 0285-2672653

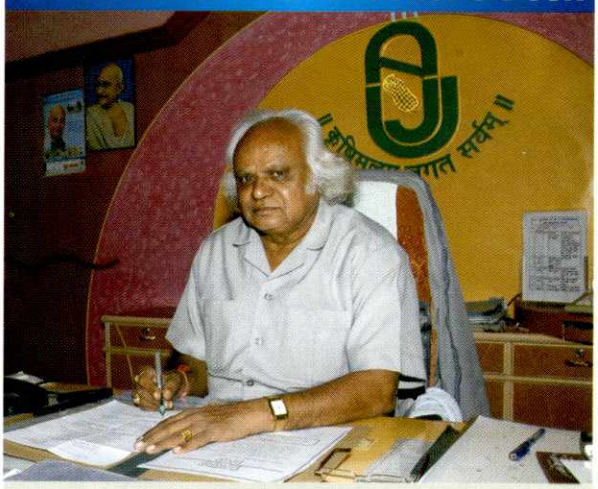
"Our overall global agricultural image makes us proud. We have considerable capacity in agricultural research and education. We occupy a leading position in many areas of farm technology, including information, bio-and space technologies."

Dr. M. S. Swaminathan

Shri Narendra Modi, Chief Minister Inspiring Farmers for Export & Value Addition of Farm Produce

The valedictory session of the national seminar was also presided over by the Hon'able Chief Minister of Gujarat, Shri Narendrabhai Modi. Also present on the dias were Shri Bhupendrasinh Chudasma, Minster, Agriculture & Co-operation Department (Gujarat State); Shri I. K. Jadeja, Minister, Urban Development, Smt. Anandiben Patel, Minister, Education, Shri C. D. Patel, Minister, Travel and Tourism; Shri Ratibhai Sureja, Minister, Water Resources and Dr. Avinash Kumar, Additional Chief Secretary, Agriculture & Co-operation Department. On this occasion, The Chief Minister released a book entitled *"Phal ane Phul Pako ni Kheti"* and a booklet on *"Khedut upyogi sansodhan bhalamano"*.

From The Vice Chancellor's Desk



NEW TECHNOLOGIES OF AGRO PROCESSING AND POST HARVEST ENGINEERING

Agricultural production in India has made rapid strides in the past three decades and enabled us to achieve self sufficiency in food grains. Significant increase have also been achieved in the production of fruits, vegetables, milk, egg, meat and other food products. However, less than 1% of our total horticultural produce is processed as compared to more than 60% in developed countries. It is estimated that the post harvest losses in durable commodities are around 10% and in perishables about 40%, resulting in a value loss of the order of more than Rs.80,000 crores a year, because of the inadequate processing technologies, infrastructure facilities and qualified technical personnel.

In the present scenario of economic liberalization, GATT agreement and changing food consumption habits, the Indian Food Industry will shift to foods that demand more appropriate handling, processing, preservation, storage and marketing resulting in greater protein intake besides making the Indian food products internationally competitive.

A number of R&D organizations in the country have been working in the area of Post Harvest Technology. However, in view of the agro climatic diversity and vastness of the country besides globilization there is an urgent need to develop suitable technologies. Some of the such technologies are identified and listed hereunder which requires the attention of the enterprenures as well as research institutes.

(1) Pre cooling and storage of fruits and vegetables including controlled environment storage.

(2) Utilization of neno technology in packaging to preserve freshness of the fruits and vegetables.