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The VIAEP is a key national scientific and technological institution in agricultural engineering and post-harvest technologies. It has functions as follows: Fundamental and applied research, technology transfer, participating in quality management, post-graduate training and international cooperation in agriculture and rural development.
TASKS

1. Basic Research
2. Survey
3. Applied Research
4. Equipment for Manufacturing & Testing
5. Technology Transfer
6. Control and Evaluation of quality
7. Post-graduate Training
8. International Cooperation
Organization structure

• VIAEP includes 500 staff:
  1 Professor
  4 Associate Professors
  2 Doctors of Science
  21 Ph.D
  23 Masters
  349 University Graduates
  100 Others
3 Functional Departments

1. Department of Science, Training & International Cooperation
2. Department of Administrative Organization
3. Department of Accounting
12 RESEARCH DEPARTMENTS

1. Department of Automation
2. Department of Crop Cultivating Mechanization
3. Department of Harvesting Mechanization
4. Department of Salt Producing Mechanization
5. Department of Animal Husbandry Mechanization
6. Department of By-product Treatment
7. Department of Technology & Equipment for Food Processing
8. Dept. of Post-harvest Microbiology
9. Department of Physiology & Biochemistry of Agro-products
10. Department of Technology and Equipment for Food Preservation
11. National Electrical Mechanical Laboratory VILAS-019
12. Pilot workshop for Food Processing & Preservation
7 SUB-INSTITUTE AND CENTRES

1. Sub-Institute of Agricultural Engineering and Post-harvest Technology (in HCM city)

2. Centre for Experimental Application and Technology Transfer in the Central (in Hue city)

3. Centre for Technology Transfer & Consultancy on Investment

4. Centre for Aero-Hydraulic Machines, Irrigation and Drainage Mechanization

5. Centre for Food Quality Control & Standardization

6. Centre for Measurement, Testing and Evaluation of Agricultural Machinery

7. Centre for Prototype Manufacture
SCIENCE - TECHNOLOGY RESEARCH ACTIVITIES
Research and manufacture of a system of equipment and complete set of machines for mechanization of main agricultural crops such as rice, maize, soy bean, peanut, etc; industrial crops and fruit trees.

Completely mechanized for rice, maize and sugar-cane production
Applied research in biology, bio-technology, technology for food, agro-products and foodstuff.
Study on bio-pesticides to replace chemical ones for crops-care and preservation of agro-products.
Study on by-products treatment from residues in agriculture, processing industry and other kinds of plants.

1. Use of longan and litchi kernels for animal feed
2. Use of coffee shell for biological fertilizer
3. Use of rice husk as fuel for fluidized-bed combustion

Recycle natural resources and protect agricultural environment
Study on preservation, processing and diversification of agro-products and foodstuff to increase their value and to reduce post-harvest losses.
Adopt and improve technological processes as well as appropriate equipment/machines for preliminary processing, storage and processing of agro-products.

- Plum storage
- Potato preservation
- Rice, maize, soy-bean, peanut preservation
- Fruit, vegetables, spices preservation
Based upon the system of modern laboratories and equipment, VIAEP has the capability of meeting the requirements on the agricultural engineering and post-harvest technology.
Research, design and manufacture machines and equipment; establish technological processes on:

- Cultivating mechanization
- Crops-care
- Irrigation
- Harvesting
- Preservation
- Processing
- Renewable energy
Cultivating Mechanization

Research and develop all kinds of machines for land preparation for rice, maize, sugar cane and industrial crops:

* Tilling equipment
* Sowing, transplanting
* Improved tractor & power tiller for paddy field
Cultivating Mechanization

To meet the requirements of characteristics of each region, the Institute has studied, applied various machines such as:

- Improved 4-wheel tractor for water field operation.
- 2-wheel power tiller
Cultivating mechanization

Implements and machines for paddy transplanting and seed sowing.
Crops-care - Irrigation

All kinds of pumps such as hand manual pump, high pressure spiral pump, axial-flow pump and centrifugal pumps have been widely applied for different areas of plains, midland, mountains, etc.
Crops-care - Irrigation

Systems of sprinkling, dripping, absorbing irrigation.

Many floating pumping stations and system of sprinkling irrigation along rivers have been transferred to many localities nationwide and abroad.
Harvesting mechanization

Research design and manufacture rice combine harvester with capacity of 1 ha/day.
Harvesting mechanization

Models of maize sheller, soya-bean thresher, peanut decorticator, grass cutter have been applied in production.
Preservation of agro-products and foodstuff has been improved and gradually completed. Hundreds of equipment and technologies have been applied in production. Losses of post-harvest have remarkably reduced.
Processed products have widely been diversified and sold at markets nationwide.

Processing lines for seed, animal feed, coffee, green tea, cassava starch, soft drinks and many other products have been installed and operated, aiming at improving agro-products value.
The above-mentioned processing lines are being widely applied in factories and the production units nationwide.
Development of Renewable energy

Solar dryers, generators and windpumps have been adopted for years.
Technology Transfer

Based upon the output of R&D projects, many technologies and technical achievements have been transferred effectively into production.

Localities adopting technology transfer are:

- Provinces in plain
- Mountainous
- Coastal
- Island
- Remote areas
Map of Localities applying Science-technology developed by VIAEP.
Quality Control and Evaluation

Testing and standardizing quality for almost 1,000 probes per year:

- nutrition
- mechanic
- microorganism
- Organoleptic
Quality Control and Evaluation

Completing methods to analyze criteria on food safety and hygiene

- Antibiotics
- Insecticides
- Hormones
- Heavy metals
- Preservatives
Testing and evaluation of equipment machinery

Testing and evaluating over 100 kinds of:

- Tractors
- Agricultural machines
- Equipment for processing lines

Select 50 production lines of machines and equipment
Testing and evaluation of equipment machinery

National Electrical Mechanical Laboratory VILAS 019 of VIAEP has achieved the National and International Standards ISO/IEC 17025

Compiled and participated in promulgating
11 TCVN (National Standards),
12 Sectoral Standards
VILAS 019 of VIAEP has become an official Member of the Mutual Recognition Agreement (MRAs) in Asia Pacific Region (APLAC) and worldwide (ILAC).

Meeting the demands of measuring, testing and calibrating mechanical, electric, non-electric and environmental parameters according to Vietnam and International Standards such as ISO, ASTM, JIS, BS
VIAEP is the standing Office of the key National Science and Technology Program in the period of 2001-2005

“Science-Technology for Industrialization and Modernization in Agriculture and Rural Development”

The key Program under the Minisitrial level

“Preservation and Processing of Agro-Forestry Products”
In the period of 2001-2005

VIASEP is the leader of 10 national R&D Projects and 7 national pilot projects

13 R&D projects of Ministerial level

Participating in other 11 R&D projects at National and Ministerial levels

Many R&D projects in cooperation with various localities nationwide
Training

Training of Professional Doctor in Agricultural Engineering And Post-Harvest technologies.

Cooperation, post-graduate training in Vietnam and abroad
International Cooperation

VIAEP has established regular relationship with the International Organizations:

- CIAT
- AIT
- IRRI
- CAAMS
- ACIAR
- IFPRI
- IUFoST
- AusAID
- JICA

Relationship with specialized Institutions over 20 countries
International Cooperation

VIAEP is the coordinating agency for Science Technology on ASEAN Food and Foodstuff

Official Member of the Centre for Asia - Pacific in Agricultural Engineering and Machinery (UNAPCAEM)

Federation of Institutes of Food Science and Technology in ASEAN (FIFSTA)
Distinguished Achievements:

- Labour Order – the 3rd class (1981)
- Labour Order – the 2nd class (1985)
- Labour Order – the 1st class (1995)
- Challenge Banner by the Government (1994)
- Challenge Banner by the Government (1996)
- Award by the Vietnam State (2000)
- Independence Medal – the 3rd class (2001)
VIAEP Headquarter - 2005
Trung Hoa, Cau Giay, Hanoi

The End