



VIETNAM ACADEMY OF AGRICULTURAL SCIENCES (VAAS)

INSTITUTE FOR AGRICULTURAL ENVIRONMENT (IAE)

BRIEF PROFILE

INSTITUTE FOR AGRICULTURAL ENVIRONMENT (IAE)

I. GENERAL INTRODUCTION:

- Name of organization: **Institute for Agricultural Environment (IAE)**
- Postal Address: Phu Do Ward, Bac Tu Liem District – Hanoi - Vietnam
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II. FUNCTIONS AND TASKS

2.1. Functions:

1. Institute for Agricultural Environment (IAE), a institute member of Vietnamese Academy of Agricultural Sciences (VAAS) was established on 10 April 2008 according to Decion No 1084/2008/QD-BNN-TCCB issued by Ministry of Agriculture and Rural Development (MARD);

2. IAE is a scientific research organization which was established and invested by government with the main functions of (i) basis scientific research, (ii) application research; (iii) technological transfer; and (iv) consultance services in agricultural and rural environments for sustainable agricultural development.

3. IAE is a public scientific service organization to conduct research and transfer technologies in the field of environments of agriculture; livestock; forestry; water resources and irrigation; saltilty; fishery; and rural areas. IAE is funded and invested by the Vietnam Government; acts as self-control and self-responsible; use its own seal and account in treasury and follows state regulations and laws.

2.2. Tasks:

1. Propose plans; programs and projects of scientific research and technological transfer in the field of environment agricultural, forestry, water and irrigation, fishery and rural areas which serve for sustainable agricultural development; prove proposals to jurisdictional ministries and directly conduct research proposals after they are approved;
2. Conduct scientific research and recommend solutions in the following fields:
 - a. Soil environments: agriculture, forestry; aquaculture; flooded lands; soil environmental measurements and analysis;
 - b. Environmental degradation and pollution, desertization, saltization and alumization;
 - c. Impacts of climate change on agricultural environment and agrobiodiversity;
 - d. Environmental impact assesement; impacts of genetically modifier organism (GMO) and strange organism;
 - e. Environmental pollution due to impacts of livestock and intensive cropping production, aquacultural intensive, handicraft and other production activities;
 - f. Environmental toxics and biology, biosafety agricultural commodity production, environmental technical barrier of commercial agricultural products;
 - g. Pollution treatment technologies and re-use by-products and wastes from agricultural production;
 - h. Building environmental databases and modellings, environmental forecast.
3. Conduct research and recommend effectively policies for agricultural and rural environments;
4. Consult and offer technological and scientific services in the field of agricultural and rural environments;
5. Strengthen cooperation in scientific research; promote international cooperation for education exchange and building capacity in agricultural and rural environments.

III. ORGANIZATION PATTERN

3.1. Directorate:

- Director: Prof. Dr. Mai Van Trinh
- Deputy Director: Prof. Dr. Pham Quang Ha
- Deputy Director: Dr. Tran Van The

3.2. Administrative and Management Departments:

- (i) Science and International Cooperation
- (ii) Administration Management
- (iii) Financial and Accounting

3.3. Research and Development (R&D) Department and Center:

- (i) Environmental Chemistry
- (ii) Biological Environment
- (iii) Biosafety and Biodiversity
- (iv) Rural Environment
- (v) Environmental Database and Modelling
- (vi) Central Laboratory on Environment

3.4. Agricultural Environmental Monitoring and Analysis Station:

- (i) The Northern Agricultural Environment Monitoring and Analysis;
- (ii) The Southern Agricultural Environment Monitoring and Analysis;
- (iii) The Central Highland and Central Coastal Region Agricultural Environment Monitoring and Analysis;

IV. HUMAN RESOURCES

Total staffs: 153, including 2 Ass. Prof.; 10 Ph.D, 48 MSc.; 76 BSc and 17 technicians

V. FACILITIES

- Total areas: 30,000 m²
- Head quarter: 4,500 m²
- Green house: 240 m²
- Experimental field: 23,260 m²
- Irrigation areas: 2,000 m²

VI. RESEARCH AND DEVELOPMENT ACTIVITIES

- Conducting regular and irregular monitoring , analyzing and forecasting agricultural environmental quality
- Develop technologies to treat pesticide residue contaminated in soil and; surface water pollution;...
- Develop integrated solutions for treating pollution of heavy metal in soil, arsenic in water; toxic remains in soil; predicting spread out of dioxin and other high toxic chemical;

- Developing microbiological products to treat wastes from livestock, crop productions; food processing, handicraft villages for producing organic fertilizers at households and centralized production scale;
- Developing botanical technology to treat polluted water; Apply environmental indicating flora to detect environmental pollution;
- Organizational linkage, quality control and certification for safety vegetable production in GAP, cleaner production in vegetable and coffee processing;
- Developing energy and quantity crops production for biofuel production (sweet sorghum);
- Assess impacts of climate change on agriculture; propose integrated mitigation and adaptation measures;
- Assess economic damages due to environmental pollutions from handicraft villages;
- Recommend environmental policies for agricultural and rural environment management.
- Provide services of analyzing environmental and agricultural product quality with modern and specialized equipments; training and communication.

VII. RESEARCH PRIORITIES

- Assess and predict environmental impacts of industrial, handicraft and agricultural production activities on agriculture;
- Monitoring and evaluate impacts of soil and water quality on safety of agricultural products; propose solutions for improving safety of agricultural products;
- Research impacts of climate changes on agricultural production and propose solutions for mitigation and risk aversion to adapt the climate change;
- Research and develop technologies of environmental pollution treatment in agriculture and rural areas;
- Strengthen control and monitoring of quality of agricultural products; propose Vietnam standard of agricultural product quality; technical barriers of environments in trade exchanges;
- Research and recommend policies and institutionals for rural and agricultural environment;
- Provide scientific services of analyzing environmental and agricultural product quality with modern and specialized equipments; training and communication.

VIII. INTERNATIONAL COOPERATION

Institute for Agricultural Environment (IAE) has been cooperating closely with:

- United Nations Development Programs (UNDP),
- Food and Agriculture Organization of United Nations (FAO);
- International Crops Research Institute for the Semi-Arid Tropics (ICRISAT);
- International Development and Research Center (IDRC);
- International Rice Research Institute (IRRI)
- Asia Development Bank (ADB);
- World Bank (WB);
- International Plant Genetic Resources Institute (IPGRI);
- International Center Research and Development (IRD, France)
- Economics and Environment Programs in Southeast Asia (EEPSEA);
- Swedish International Development Cooperation Agency (SIDA);
- Swiss International Development and Cooperation Agency (SDC);
- Japan International Cooperation Agency (JICA)
- Korean International Cooperation Agency (KOICA)
- United State Aid (USAID);
- Australian Aid (AUSAID);
- International Union for Conservation of Nature (IUCN);
- Chiba University (Japan);
- Australia Center for International Agricultural Research (ACIAR);
- Canadian International Development Agency (CIDA, Canada),
- World Agricultural Soil and Water Conservation (WASWC).

And strengthen to develop collaboration with potential organizations to conduct related issues.

**PHONEBOOK OF
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