

Annex 3. Project Ideas

1 The project idea on genetic engineering which has the international support.

a) Title of project proposals for technology development

"Research on creating new high-yield and salt-and-drought-tolerance rice variety"

b) Project's information

- Introduction / Background: Starting from the actual needs:

- Construction of a core genetic laboratory which includes molecular lab, tissue-culturing rooms, genetic-breeding room;
- Capacity building for genetic-breeding officials;
- Building a network of breeding ecosystems and research institutes;
- Building testing networks and quick transfer to field production.

- Goals and objectives:

- Goals: To collect the genes of the high-yield group; especially high-tolerant varieties;
- Objective: To create dominant hybrids that can resist the external conditions such as salinity, flooding and drought.

- Relations of project with the priorities in sustainable development of the country:

The project is related to food security and agricultural exports of the country

- Things that are obtained from the project as the value / benefits / messages:

- Standard laboratory service for effectively breeding
- Breed-working team
- Diverse materials for the selection
- New varieties for intensive cultivation and increasing productivity, yield stability for saline and alum areas.

- The scope and feasibility of the project:

The project will positively affect the agricultural sector, particularly farmers, who have income primarily from farming.

- Timeline: 2012 - 2020

- 2012-2015: Increasing facilities and strengthening human resources;
- 2016-2018: Start putting equipment into operation, collecting genetic sources;
- 2019-2020: Resulting resistance genes for testing.

- The requirements for budget / resources: \$100,000,000 USD

- Estimated / measured: 10 research institutes specialized in rice, maize, beans, nuts, industrial crops

- The problems / challenges that may arise: undesired product

- The responsibilities and coordinate in the implementation:

Ministry of Agriculture and Rural Development (MARD) is responsible for linking stages, connecting science and technology products and organizing the demonstration, testing and scaling.

2 The project idea on rice land conversion which has the international support.

a) Title of project proposals for technology development