

Annual Research Programme

(2015-2016)

Agricultural Economic Division

PROGRAMME AREA: SOCIO-ECONOMIC RESEARCH AND IMPACT ASSESSMENT

Project-1 : Economic Impact Assessment of BINA Released Crop Varieties and Technologies

Objectives

- :
- i) To estimate the productivity and profitability of BINA developed varieties/technologies,
 - ii) To measure the technical, allocative and economic efficiency of BINA developed varieties/technologies at farmers level,
 - iii) To estimate the social benefits associated with BINA released varieties/technologies,
 - iv) To estimate the adoption level of BINA developed varieties/technologies,
 - v) To determine the economic constraints of BINA developed varieties/technologies,
 - vi) To suggest some policy and recommendation

Personnel assigned

- :
- Dr. Mangal Chandra Chanda, CSO and Head
Mr. Mohammad Rashidul Haque, SSO
Mr. Md. Mohsin Ali Sarkar, SSO
Mr. Syful Islam, SO
Mrs. Razia Sultana, SO
Mrs. Farzana Papri, SA-1
Mr. Md. Najrul Islam, SA-2

Status

- :
- This is an on-going project. Economic study of Binadhan-7, Binadhan-5, Binadhan-6 and Binadhan-8, Binachinabadam-4, Comparative analysis between Binadhan-7 and BRRIdhan-33, Value chain analysis of Binatil-1 & 2, Adoption and impact of salt tolerant variety Binadhan-8 & Binadhan-10, Yield gap analysis of Binamoog-8 have been completed in 2011-12, 2012-13, 2013-14 & 2014-15, respectively.

Experiment 1

: Potential productivity and yield gap of Biansoybean-2 in the research station and farm level

Objectives

- :
- i) To identify the profitability of Biansoybean-2;
 - ii) To determine the yield gap of Binasoybean-2 in research station and farm level; and
 - iii) To suggest key strategies to minimize the yield gap.

Methodology

- :
- Stochastic frontier production function model

Location

- :
- Noakhali, Laxmipur, Chandpur, Barisal, Comilla

Data to be taken : Primary data from different categories of farmers using interview schedule

Sample size : 200 (40 for each location)

Experiment 2 : **Economic efficiency of Binamoog-8 in some selected areas of Bangladesh**

Objectives :

- i) To estimate the productivity and profitability of Binamoog-8;
- ii) To examine the technical, allocative and economic efficiency of Binamoog-8; and
- iii) To suggest some policy and recommendation.

Location : Ishwardi, Natore, Rajshahi, Magura & Jessore

Methodology : Stochastic frontier production function model will be used.

Data to be taken : Primary data from different categories of farmers using interview schedule

Sample size : 200 (40 for each location)

Experiment 3 : Economic feasibility of mustard cultivation in some areas of Bangladesh

Objectives :

- i) To identify the cost and return of Binasarisha-4 cultivation;
- ii) To determine the relative profitability of mustard cultivation with major competing crops; and
- iii) To estimate the comparative advantage of mustard cultivation in Bangladesh.

Location : Sirajganj, Pabna, Magura, Tangail

Methodology : The survey will be covered 200 farmers (50 farmers from each location). Statistical technique will be used to analyze the collected data.

Data to be taken : Primary data from different categories of farmers using interview schedule

Sample size : 200 (50 for each location)

Experiment 4 : Economic study of submergence tolerant rice variety Binadhan-11

Objectives :

- i) To study the cost and return of the variety;
- ii) To find out the contribution of the variety on farmers income and national income; and
- iii) To identify the factor that affects the yield of Binadhan-11.

Research site/Location : Mymensing, Sherpur, Jamalpur and Kurigram.

Medhodology/Methods : The study will be covered in the 4 submergence tolerance area. In total, 120 farmers will be used i.e. 30 farmers from each area. In the sampled areas data will be collected through pre-designed interview schedule. Tabular analysis will be done to find out cost and return and contribution of the variety.

Data to be taken : Primary data from different categories of farmers using interview schedule
Sample size : **120** (30 for each location)

Experiment 5 : Economic Impact assessment of BINA released mungbean varieties

Objectives :

- i) To estimate the social benefits associated with BINA released mungbean varieties
- ii) To examine the rate of return from BINA released mungbean varieties
- iii) To assess the economics of mungbean Binamoog production.

Research site/Location : Magura, Meherpur, Iswardi

Methodology : Akino and Hyami economic surplus model for calculating the changes in producers and consumers surpluses for a closed economy.

Data to be taken : Primary data from different categories of farmers using interview schedule

Sample size : 200 (50 for each location)

**Head of Agricultural
Economic Division**

CSO (RC)

Director (Research)