

AFROZA CHOWDHURY

Scientific Officer
Agricultural Economics Division
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Key Areas of Expertise

(1) Agricultural value chain development; (2) Agribusiness and price mechanism; (3) Socio-economic advocacy and knowledge management; (4) Farming system and sustainability; (5) Gender dynamics.

Education

Masters of Science in Agribusiness and Marketing, 2012

Bangladesh Agriculture University, Mymensingh, Bangladesh

Thesis Topic: Marketing System and Seasonal Price Variation of Brinjal in selected area of Bogra district, Bangladesh.

Bachelor of Science in Agricultural Economics, 2010

Bangladesh Agriculture University, Mymensingh, Bangladesh

Higher Secondary School Certificate, 2006

Begum Badrunnesa Womens' College, Dhaka, Bangladesh

Secondary School Certificate, 2004

New Govt. Girls' High School, Dhaka, Bangladesh

Job Experience

Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh

Scientific Officer (January 2013 – to date)

Agricultural Economics Division

Responsibility: Conducting research, communicating the findings at seminars and conferences and preparing reports and publications.

International Rice Research Institute (IRRI), Bangladesh

Survey supervisor and research collaborator (2014-2015)

Social Sciences Division

Responsibility: Supervising and monitoring the project "Area based farm household survey under Metrics and Indicators for tracking in GRiSP (MISTIG)"

Rural Development Academy (RDA), Bogra, Bangladesh

Position: Assistant Director (2012 – 2013)

Responsibility: Conducting training, research and action research programs for rural development.

Research Experiences

My research at BIRRI has been primarily focused on surveying and analysing the factors affecting sustained rice production, and identifying, testing and implementing interventions to ensure the sustainability of rice production. I design field experiments and surveys, and prepare and validate questionnaires to assess farm livelihoods, varietal adoption, accounting production efficiency and farm profitability and price mechanism, and analyse how these affect the sustainability. Another aspect of my research involves identifying and implementing ways to ensure sustainability. I have tested a number of interventions including adoption of climate resilient and modern rice varieties and their farm level performances, resource optimization, sustainable value chain development, gender dynamics, seasonal weather forecasting (using WRF model) and heritage preservation project. These works have significantly improved our understanding and helped in develop a framework which can be used as a guide for government agencies and other stakeholders to ensure the sustainability of rice production – one of the biggest challenges Bangladesh is facing in maintaining food security. These projects are funded by both national and international organizations including Bangladesh Agricultural Research Council, BIRRI and IRRI.

Professional Training

- **Title:** R software for Experimental Design and Data Analysis
Institute: Bangladesh Rice Research Institute.
Time: 18-22 December, 2016
- **Title:** Investment Game Application
Institute: International Rice Research Institute (IRRI).
Time: 22 September-04 October, 2016
- **Title:** Basics on Agro Meteorology, Linux, Weather Research and Forecasting (WRF) model and Climate Prediction Tool (CPT) Training
Institute: Bangladesh Meteorological Department, Agargaon, Dhaka.
Time: 16-30 August, 2016
- **Title:** Addressing gender issues in agricultural value chains
Institute: Integrating Gender and Nutrition within Agricultural Extension Services (INGENAES).
Time: 1-5 May, 2016
- **Title:** Economic and Financial Profitability Analysis.
Institute: Bangladesh Agricultural Research Council (BARC), Farmgate.
Time: 8-12 November, 2015
- **Title:** Green Super Rice: Crop Management Skill
Institute: International Rice Research Institute (IRRI).
Time: 6-7 September, 2015
- **Title:** Developing Sustainable Food Value Chain.
Institute: International Rice Research Institute (IRRI)
Time: 8-12 December, 2014
Venue: ICRISAT, Hyderabad, India
- **Title:** Training on Conducting Socio-economic Survey using Surveybe Software.
Institute: International Rice Research Institute (IRRI)
- **Title:** Selected Software Tutorial for Econometric Analysis.

Institute: Bangladesh Agricultural Research Council (BARC), Farmgate.
Time: 25 May-29 May, 2014

- **Title:** Rice Production Training.
Institute: Bangladesh Rice Research Institute.
Time: February 16- April 16, 2014
- **Title:** Improvement of Public Service through Total Quality Management (TQM)
Institute: Japan International Cooperation Agency (JICA).
- **Title:** Trade Policy Appreciation Training on WTO and Bangladesh
Institute: Bureau of Socioeconomic Research and Training (BAURES), BAU.

Seminar and conference presentation

- Rice Vision for Bangladesh 2050 and Beyond. MS Kabir, MU Salam, **A Chowdhury**, NMF Rahman, KM Iftekharuddaula, MS Rahman, H Rashid, SS Dipti, A Islam, MA Latif, AKMS Islam, MM Hossain and JK Biswas. Presented by MS Kabir at 24th Rice Research and Extension Workshop, held at BRRI, 06 February 2016.
- Golden rice value chain study in Bangladesh. Paper presented at Golden Rice Annual Meeting-2015, held at International Rice Research Institute (IRRI), Headquarters, The Phillipines, 1-3 December, 2015.
- Stress tolerant rice seed dissemination in Bangladesh and the plan for gender inclusion. Paper presented at the GRiSP Gender Workshop, held at International Rice Research Institute (IRRI), Headquarters, The Phillipines, 25-27July, 2014.

Publications

MS Kabir, MU Salam, **A Chowdhury**, NMF Rahman, KM Iftekharuddaula, MS Rahman, H Rashid, SS Dipti, A Islam, MA Latif, AKMS Islam, MM Hossain, TH Ansari, B Nessa, MA Ali and JK Biswas. (2015) Rice Vision for Bangladesh: 2050 and Beyond. *Bangladesh Rice J.* 19 (2): 1-18, 2015.

Rahman M C, Hussain C N B, Hossain M R, Rahaman M S and **Chowdhury A.** (2015) Comparative profitability and efficiency analysis of rice farming in the coastal area of Bangladesh: The impacts of controlling saline water intrusion. *IOSR Journal of Agriculture and Veterinary Science.* 2015, 8 (10-II): 89-97.

Abstract Publications

Chowdhury A, Siddique MAB, Sarkar ABS, Islam A, Pervin MS, and Baki ZI (2014). Comparative economic performance of urea spray and magic growth technology, *Bangladesh Rice Research Abstract 2014*, Bangladesh Rice Research Institute, Gazipur-1701. Page-98.

Research Reports

Chowdhury A. (2016) Social dynamics of gender role in rice value chain in Bangladesh, Annual Research Report-2015/16 Bangladesh Rice Research Institute, Gazipur, Bangladesh.

Chowdhury A. (2015) Estimation of Cost, Return, Factor and Income Shares of MV Rice Cultivation at Farm Level, Bangladesh Rice Research Institute (BRRI). Annual Research Report-2014/15 Bangladesh Rice Research Institute, Gazipur, Bangladesh.

Chowdhury A. Rahman MS. and Siddique MAB. (2015). Food Habit and Dietary Pattern of Garment Workers in Gazipur, Annual Research Report-2014/15 Bangladesh Rice Research Institute, Gazipur, Bangladesh.

Chowdhury A. and Siddique MAB. (2014). Value Chain Analysis and Share of Different Actors in Rice Marketing Channel in a Selected Area of Bangladesh, Annual Research Report-2013/14 Bangladesh Rice Research Institute, Gazipur, Bangladesh.

Rashid S. and **Chowdhury A.** (2012). Feasibility study on action research project on construction of co-operative multistoried housing for agricultural land restoration and maximize productive use of organic resources. Centre for Irrigation and Water Management, Rural Development Academy, Bogra, Bangladesh.

Language Proficiency

IELTS Overall Band Score 6.5 (2015)

Listening 7.0 Reading 6.0 Writing 6.5 Speaking 6.5

Computer Proficiency

- Operating system: Windows and Linux
- Office Package Program: Microsoft Office (MS Word, Excel, Power point)
- Statistical Software: SPSS, R, STATA, Frontier, Shazam, Eviews, etc.
- Socio-economic Survey using Surveybe Software.
- Weather forecasting: WRF and CPT

Professional Associations

Member of Professional Associations

- Bangladesh Agricultural Economists Association (BAEA)
- Krishibid Institution, Bangladesh (KIB)
- Bangladesh Rice Research Institute Scientist Association (BRRISA)

Referees

1. Dr. Md. Ansar Ali

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Bangladesh Rice Research Institute
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2. Md. Moniruzzaman

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