

# Mohammad Rezoan Bin Hafiz Pranto

Bangladesh Rice Research Institute, Gazipur-1701

Email: [rezoan.iwm@brrr.gov.bd](mailto:rezoan.iwm@brrr.gov.bd), Cell Phone: +8801712962660, LinkedIn: [Rezoan Bin Hafiz Pranto](#)

ResearchGate: [Mohammad Rezoan Bin Hafiz Pranto](#)

## **Educational Qualification**

### **Master of Science in Sustainable Agriculture and Food Security**

January 2017-January 2019

Bangladesh Agricultural University, Mymensingh

### **Bachelor of Science in Agricultural Engineering**

January 2012-December 2016

University: Bangladesh Agricultural University, Mymensingh

## **Professional Experience**

### **Scientific Officer**

October 2019-Present

*Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Division: Irrigation and Water Management*

- Involved in Developing Technologies that Permit More Efficient Water Use
- Assessed Cropping Pattern that Increase Crop Production at the Irrigated Environment
- Applied Engineering Principles in Crop Production

### **Research Assistant**

January 2017 - January 2019

*Interdisciplinary Institute for Food Security (IIFS)*

- Worked to Promote Food Security Through Research, Dissemination and Community Action in Bangladesh.
- Involved in Taking an Interdisciplinary and Systemic Approach to Agricultural Practices, Agricultural Policies, Climate Change Impacts, Environmental Sustainability, Gender and Health Aspects of Food Security.

## **Ongoing Research Program**

Acting as Principal Investigator in

- Evaluation of Drought Tolerance Ability of Newly Released BRRI Variety in Drought Prone Area
- Yield and Water Productivity of Boro Rice Affected by Transplanting Time and Water Management.

Acting as Co-investigator in

- Determining Minimum Irrigation Water Requirement of Rice at Different Regions of Bangladesh through Water Balance from On-Farm Demand and Model Simulation.
- Irrigation of Rice (*Oryza Sativa* L.) Based On Weather Forecasting in Kushtia.
- Irrigation Water Requirement and Rainfall Utilization for Delayed Transplanting of Boro Rice in Different Locations of Bangladesh.
- Present Status and Potentiality for Increasing Rice Cultivation in Surface Water Irrigation Projects of Bangladesh.

## **Research Interests:**

Soil and Water System, Agricultural Irrigation and Drainage, Water Resources and Management, Water Modeling and Simulation, Environmental Engineering, Drought Mitigation

## Publications:

- AKM Saiful Islam, Md. Ashraful Alam, M. Kamruzzaman, Md. Golam Kibria Bhuiyan, Md. Monirul Islam, **Mohammad Rezoan Bin Hafiz Pranto**, “**Business Viability of Small Combine Harvester in Haor Areas**” in *European Journal of Agriculture and Food Sciences*, 2021  
DOI: <https://doi.org/10.24018/ejfood.2021.3.3.290>
- Palash Kumar Kundu, Md. Ferdous Parvez, Dr. Taposh Kumar Acharjee, Sheikh Maniruzzaman, Sanjoy Kumar Debsharma, Golam Sarwar Jahan, Hasibur Rahman Hera, Aishik Debnath, **Md. Rezoan Bin Hafiz Pranto**, “**Rainfall Induced Saline Soil Management through Leaching**” in *North American Academic Research*, 2020 DOI: <https://doi.org/10.5281/zenodo.3953115>
- **Hydraulic properties of buried pipe distribution system in different schemes** (Pages: 22 - 32) M.Z. HOSSAIN, K.M. HASANUZZAMAN, M.A. ISLAM, M.A. RAHMAN, S.Z. BARY AND **M.R.B.H. PRANTO**. <http://ggfjournals.com/content/papers/MIN-821>
- **Evaluation of improved earthen canal, pre-cast canal and buried pipe irrigation systems based on water losses**, M. Z. Hossain, M. A. Sarker, M. A. Islam, **M. R. B. H. Pranto**, P. Saha and M. M. Hasan: 95-102. [http://intjar.com/wp-content/uploads/2021/07/intjar\\_V4\\_p\\_95-102.pdf](http://intjar.com/wp-content/uploads/2021/07/intjar_V4_p_95-102.pdf)

## Professional Development

- **ALISON (MOOC platform)**
  - “Soil and Water Conservation Engineering - Introduction to Soil Erosion” (April, 2020)
- **Coursera (MOOC platform)**
  - “Water Resources Management and Policy” from University of Geneva (May, 2020)
  - “The Sustainable Development Goals – A global, trans disciplinary vision for the future” (June, 2020)
  - “Global Environmental Management” from Technical University of Denmark (July, 2020)

## Training

“Agricultural Extension Training” Certified from Bangladesh Agricultural University

“Research Methodology Training” Certified from Graduate Training Institute, Mymensingh

## Technology Transfer/Dissemination

- Government of Bangladesh Funded “Synchronize Cultivation of Rice through Rice Transplanter”
- Government of Bangladesh Funded “Alternate Wetting and Drying Program”

## Courses Learned

Ground Water Engineering, On Farm Water Management, Pumps and Wells, Soil and Water Conservation Engineering, Irrigation and Drainage Engineering, Fluid Mechanics, Hydraulics, Soil Science, Agronomy, Agricultural Statistics, Mathematics etc.

## Project work:

- Changing Livelihood Status of Rural Women through Homestead Farming
- Waste Water Management on Municipal Area

## Workshops and Meetings

- Roy, D., M.B. Hossain, **M.R.B. Hafiz**, M.T Islam. 2021. Drought management by integrated approaches in T. Aman rice season to escalate water productivity in drought prone regions of Bangladesh. 8th International Conference on Water and Flood Management, March 29-31, Dhaka, Bangladesh
- Regional Workshop on Adoption and Success of Alternate Wetting and Drying (AWD) Technology for Rice Production, 15 February 2020, Bangladesh Rice Research Institute, Kushtia

## **Key Skills**

- Research Program Development
- Execution of Research Results
- Scientific Report Writing
- Data Analysis
- Field Survey
- Soil Quality Analysis

## **Statistical Analysis**

- SPSS
- CropStat
- STAR

## **Membership**

- Institution of Engineers, Bangladesh (**IEB**)
- Bangladesh Society of Agricultural Engineers (**BSAE**)
- Krishibid Institution of Bangladesh (**KIB**)

## **References**

### **Dr. A. K. M. Adham**

Associate Professor,  
Department of Irrigation and Water Management,  
Faculty of Agricultural Engineering and  
Technology, Bangladesh Agricultural University  
Phone: +8801712634374  
Email: adhamiwm@gmail.com

### **Dr. Debjit Roy**

Senior Scientific Officer,  
Irrigation and Water Management Division,  
Bangladesh Rice Research Institute  
Phone: +8801763436603  
Email: debjit.roy@gmail.com