

## Curriculum Vitae of

### Rajesh Barua

Scientific Officer, Adaptive Research Division,  
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Date of birth: 10-01-1984, Bangladeshi



### Objective

- To pursue higher education
- To build up career in Bangladesh Rice Research Institute, utilizing my excellent academic background, innovative skills and research experiences.
- To contribute effectively in the research field of crop physiology, better crop management and weed science to address the food security issue in my country.

### Research Interest

- Fundamental problems relating to crop production particularly focusing on rice: a major food crop of Bangladesh both favourable and unfavourable ecosystem
- Green house gas emission from wet land rice field
- Crop modelling and natural resource conservation
- Molecular breeding
- Managing herbicide resistance in rice based cropping systems
- Effect of pesticides on soil environment and microorganism
- Develop advance technology on post harvest loss minimization

### Research Experience

#### About 8 years working experience at Bangladesh Rice Research Institute (BRRI)

- Worked for the development of different rice varieties like stress tolerant (Salinity, Submergence, Drought) and high yielding varieties by conducting Advanced Lines Adaptive Research Trial (ALART)
- Screening of different saline, drought and submergence tolerance lines
- Dissemination of newly released BRRI varieties and technologies to the farmers
- Participated as resource personnel in different field day and training

### Academic Qualifications

2008-2010	MS in Agronomy, 3.82 out of 4.00, <b>Bangladesh Agricultural University, Bangladesh.</b>
2003-2008	B.Sc. Ag. (Hon's), 3.76 out of 4.00, Major in Agricultural Science <b>Patuakhali Science &amp; Technology University, Bangladesh.</b>

## Publications : 25

### Full Scientific Papers as the Principal Author (5)

1. **R Barua**, MSU Bhuiya, MM Kabir, S Maniruzzaman and Z Ahmed; 2011. Effect of Mimosa (*Mimosa invisa*) compost and phosphorus on the yield and yield components of lentil (*Lens culinaris* L.). *The Agriculturists* 9 (1&2): 63-72(2011).
2. **R Barua**, A K Ghoshe, S M Rahman, MN Islam and M R Biswash. 2014. Contemporary yielding knowledge of rice cultivation at grassroots level- a study. *Eco-friendly Agril. J.* 7(06): 61-64, 2014 (June)
3. **R Barua**, M N Islam, A Zahan, S Paul and Shamsunnaher. 2014. Effects of spacing and number of seedlings hill-1 on the yield and yield components of BRRI dhan47. *Eco-friendly Agril. J.* 7(06): 65-68, 2014 (June)
4. **R Barua**, M. R. Biswash, M. A. Islam, M. R. Islam, B. Karmakar, A. Zahan, M. S. I. Mamin. 2015. Performance of Some Salt Tolerant Rice Genotypes in Coastal Regions of Bangladesh under Irrigated Dry Season. *App. Sci. Report.* 11 (72-75), 2015: 72-75
5. **R Barua**, Marjorie De Ocampo, James Egdane, Abdelbagi M. Ismail and Satyen Mondal. 2015. Phenotyping rice (*Oryza sativa* L.) genotypes for physiological traits associated with tolerance of salinity at seedling stage. *Sci. Agri.* 12 (3), 2015: 156-162©PSCI Publications.

### Full Scientific Papers as the Co-Author (20)

6. Satyen Mondal, Sharmistha Ghosal, **Rajesh Barua** Impact of elevated soil and air temperature on plants growth, yield and physiological interaction: a critical review, 2016. *Sci. Agri.* 14 (3), 2016: 293-305© PSCI Publications
7. Karmakar, M A Islam, M R Islam, M R Biswash, **R Barua**, A Zahan, S Naher, P Saha, S Parveen, M S I Mamin. 2015. On-farm Evaluation of Rice Genotypes under Drought Prone Rainfed Environments. *Sci. Agri.* 12 (2), 2015:72-77© PSCI Publications
8. M. R. Biswash, M. A. Islam, M. R. Islam, B. Karmakar, A. Zahan, **R. Barua**, M. S. I. Mamin. 2015. Performance of Some Rainfed Low Land Rice Genotypes in Different Agro-Ecological Conditions of Bangladesh. *App. Sci. Report.* 9 (3), 2015: 161-165 © PSCI Publications
9. M. S. I. Mamin, M. R. Biswash, **R. Barua**, A. Zahan, S. Naher, M. H. R. Mukul, B. Karmakar, M. R. Islam and M. A. Islam. 2015. Performance of Some Zinc Enriched Rice Genotypes in Different Agro-Ecological Conditions of Bangladesh. *Sci. Agri.* 11 (1), 2015: 15-19 © PSCI Publications
10. M N Islam, M M Rahman, M J A Mian, M H Khan and **R Barua**. 2014. Leaching loss of N, P and K from the sandy loam soil of old Brahmaputra Flood Plain (AEZ-9) under continuous standing water condition. *Bangladesh j. Agril. Res.* 39(3) : 437-446, September 2014
11. A K Ghose, M S Haque, S N Begum, **R Barua**, M K Hasan and MSI Sagar. 2014. Study on the genetic diversity of lentil (*Lens culinaris* ssp. *culinaris*) using RAPD Markers. *Eco-friendly Agril. J.* 7(08):85-91
12. M R Biswash, M W Rahman, M M Haque, M Sharmin and **R Barua**. 2014. Effect of potassium and vermicompost on the growth, yield and nutrient contents of mungbean (BARI Mung 5). *Open Science J. of Bioscience and Bioengineering*, 2014; 1(3):33-39

13. S Paul, M Kamruzzaman, MIM Akand, **R Barua**, N Parvin and S Hosen. 2013. Pollution scenario and possible remedial measures of the Buriganga river of Bangladesh. *Eco-friendly Agril. J.* 6(12):257-264
14. M N Islam, M M Rahman, M J A Mian, **R Barua** and A M Kamal. 2013. Leaching loss of NPKS in old Brahmaputra Flood Plain soil under continuous standing water condition. *Eco-friendly Agril. J.* 6(04):63-66
15. M N Islam, M M Rahman, M J A Mian, **R Barua** and A M Kamal. 2013. Leaching loss of NPKS in silty soil under alternative wetting and drying condition. *Eco-friendly Agril. J.* 6(04):67-71
16. A Zahan, N Parvin, **R Barua**, M I M Akhand and M Adil. 2012. Attitude towards rural women livestock rearing. *Eco-friendly Agril. J.* 5(12):268-271
17. M H Ullah, M M M Khan, M I Alam, L Ali and **R Barua**. 2012. Effect of variety and Postharvest treatments on quality of banana during storage. *Int. J. of Bio Research* 4(12):1-6
18. L Ali, T M Razim, G Rasul, K Isalm and **R Barua**. 2011. Genotype-environment interaction in pumpkin (*Cucurbita moschata* Dutch ex. Poir), *Eco-friendly Agril. J.* 4(11):753-759
19. S Manizzaman, T Akter, **R Barua**, Z Ahmed and M S Islam. 2011. Effects of cut corm and plant spacing on vase life on gladiolus. *Eco-friendly Agril. J.* 4(12):779-782
20. M S Islam, N Islam, **R Barua**, S Maniruzzaman and T Akter. 2011. Performance of mixed cropping of mungbean with off-season Tossa Jute seed crop, *Eco-friendly Agril. J.* 4(12):779-782
21. G Rahman, A Rahman, S Maniruzzaman, **R Barua** and T Akter. 2011. Effect of different levels of nitrogen and stem pruning on growth and yield of tomato (*Lycopersion esculentum*), *Eco-friendly Agril. J.* 4(11):746-752
22. M M Kabir, M A R Sarkar, **R Barua**, S Maniruzzaman and M H R Mukul. 2011. Effect of variety and weed management on the yield and yield components of Wheat (*Triticum aestivum*) *Eco-friendly Agril. J.* 4(08):648-674
23. M H R Mukul, M A B Siddique, **R Barua**, Shamsunnahar and A Khatun. 2011. A Study on The Jhum And Jhumia Farmers in Chittagong Hill Tract Region Of Bangladesh. *Eco-friendly Agril. J.* 4(02):550-555
24. Z A Jewel, A K Patwary, S Maniruzzaman, **R Barua** and S N Begum; 2011. Physico-chemical and genetic analysis of aromatic rice (*Oryza sativa* L.) Germplasm. *The Agriculturists* 9 (1&2): 82-88(2011)
25. Z R Moni, MA Ali, M AI Khan, QSA Jahan, **R Barua**, MAT Mia and M Alam; 2009. Rice Sheath Blight disease Management through different sources & doses of ash. *Intl. J. BioRes* 7(5):108-112

## Award received

- Dec 2016: Programming R for Experimental Design & Data Analysis at BRRI  
Feb 2011: Foundation Training Course for NARS Scientists, Batch-23<sup>rd</sup> at BARD  
May 2013: Attachment Training Program on Rural Development and Poverty Reduction at BRDTI  
April 2010: 1- Month Rice Production Training Course at BRRI

## Training Attended

Sl. No.	Organization	Year	Duration		Name of Programme
			Mons.	Days	
01.	BRRI	2016	-	5	Programming R for Experimental Design & Data Analysis
02.	IRRI	2015	3		On-the-job training (Phenotyping rice genotypes for physiological traits associated with tolerance to flooding during germination and salinity at seedling stage)
03.	BARD	2013	4	-	Foundation Training Course for NARS Scientists, Batch-23 <sup>rd</sup>
04.	BRDTI	2013	-	7	Attachment Training Program on Rural Development and Poverty Reduction
05.	BARC	2011	-	2	Rice and Wheat Cultivation for Unfavorable Ecosystem
06.	BRRI	2011	-	3	Utilization of Bangladesh Rice Knowledge Bank Training Course
07.	BRRI	2010	1	-	1- Month Rice Production Training Course
08.	BARC	2010	-	3	Seed Quality Management
09.	BRRI	2009	-	2	Participatory Varietal Selection (IRRI-BRRI jointly arranged)
10.	BRRI	2009	-	3	Hybrid Rice Seed Production
11.	GTL, BAU	2009	-	13	Basic of MS Office

## Technical/ Language Skill

- Statistical Software - R 3.3.0, Crop Stat 7.2, IRRI Stat., STAR  
Computer skill - all necessary parts (MS word, Excell, Power point, Internet browsing etc)  
Language - English (very good command, IELTS band score 6.0)  
(Listening-6.5, Speaking- 6.5, Reading- 5.5, Writing-6.0)  
Bengali (mother tongue).

## References

### Professional Referee 1:

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### Professional Referee 2:

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I hereby declare that the above statements are correct and complete to the best of my knowledge.



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(Rajesh Barua)