

CURRICULUM -VITAE

A. Personal Details:

1	Name	Dr. Biraj Kumar Biswas
2	Father's name	Late Rebati Mohan Biswas
3	Mother's name	Urmila Biswas
4	Permanent address	Village - Sripur, P.O.- Hazratata, Upazilla-Sripur, District - Magura, Bangladesh
5	Religion	Sonaton (Hindu)
6	Gender	Male
7	Marital Status	Married
8	Designation	Principal Scientific Officer & Head, Workshop Machinery and Maintenance Division
9	Institute	Bangladesh Rice Research Institute
10	Date of first joining in service	18-12-2007
11	Date of birth	07-01-1963

B. Educational Qualification:

Degree/Diploma/Certificate	Class/Grade/Division	University/Institute/Board	Year Passing
Ph.D. in Farm Power & Machinery	Satisfactory	Bangladesh Agricultural University	2001
M.Sc. Agricultural Engineering (Dept. of Farm Power & Machinery)	First class	Bangladesh Agricultural University	1988
B.Sc. Agricultural Engineering (Hons.) (Dept. of Farm Power & Machinery)	Second class	Bangladesh Agricultural University	1985

C. Working Experiences:

1. Have been working as a “*Senior Scientific Officer*” under the Workshop Machinery and Maintenance Division of Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Bangladesh since December 18, 2007 to till date.

Responsibilities:

Design, development, modification and introduction of agricultural machineries and Post-harvest technologies of rice etc.

2. Have been working as a “*Research Associate*” in a research project “Promotion of Modern Drying Technologies in Rural Areas of Bangladesh” of Farm Power & Machinery Department, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh since April 2005 to till date financed by GTZ, Germany.

Responsibilities:

Preparation of questionnaires, Site selection, Field visit/survey, Data collection, Data analysis, Conducted workshop/seminar, Office management activities, Report preparation, Liaison with other organisations, Universities, and Research institutes etc.

3. Worked as a “**Program Co-ordinator (Farm Machinery Specialist)**” at PROSHIKA - A Centre for Human Development, Dhaka from December 2001 to November 2003 (2 years)

Responsibilities:

PRA, Feasibility assessment, Conducted workshop/seminar/farmers field days/ Demonstration, Technical assistance, Programme monitoring & follow-up, Extensive field visit, Office management activities, Programme extension, Problem identification, Report preparation & feedback, Conducted and co-ordination of training activities, Module preparation, Training impact assessment, Liaison with other organisations, Universities, Research institutes, Partner organisations and other organisations etc.

4. Worked as a “**Scientific Officer**” in a BARC sponsored research project on “Adaptive Research on Solar Dryers for Drying Mango, Pineapple and Fish” of Farm Power and Machinery Department, Bangladesh Agricultural University, Mymensingh, Bangladesh from June, 1999 to December, 2000 (1 year 7 months).

Responsibilities:

Experiment set up, Data collection, Data analysis & interpretation, Conducted workshop/seminar, Office management activities, Report preparation, Liaison with other organisations, Universities, and Research institutes etc.

5. Worked as a “**Scientific Officer**” in a BARC sponsored research project on “Studies on Traditional Storage Systems for Paddy in Bangladesh and Development of Low Cost Efficient Storage Systems for Use at the Farm Level” of Farm Power and Machinery Department, Bangladesh Agricultural University, Mymensingh, Bangladesh from January 1989 to December, 1991 (3 years).

Responsibilities:

Experiment set up, Data collection, Data analysis & interpretation, Conducted workshop/seminar, Office management activities, Report preparation, Liaison with other organisations, Universities, and Research institutes etc.

6. Worked as a “**Research Fellow**” in a research scheme “Tillage System and Energy” of Farm Power and Machinery Department, Bangladesh Agricultural University, Mymensingh, Bangladesh from June 1988 to December, 1988 (6 months 17 days).

Responsibilities:

Survey, Site selection,, Experiment set up, Data collection, Data analysis & interpretation, Conducted workshop/Seminar, Office management activities, Report preparation, Liaison with other organisations, Universities, and Research institutes etc.

D. Training:

Training Received:

Organization	Year	Duration	Name of Program
Graduate Training Institute (GTI), BAU, Mymensingh	1989	Two weeks	Administration, Office Management & Communication
Bangladesh Rice Research Institute (BRRI), Gazipur	2009	3 days	Hybrid Rice Development and Seed Production
Bangladesh Rice Research Institute (BRRI), Gazipur	2010	One month	1-Month Rice Production Training Course
Bangladesh Agricultural Research Council, Dhaka	2011	2 days	Financial Management of SPGR sub-projects
Workshop Machinery and Maintenance Division, Bangladesh Rice Research Institute (BRRI), Gazipur	2013	4 days	Engineering Drawing and Design of Small Equipment by AutoCAD Tool
Bangladesh Academy for Rural Development (BARD), Comilla	2013	Two weeks	Administration and Financial Management
Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research Institute, Gazipur	2013	One week	Advanced Training on Drawing and Design of Agricultural Equipment by AutoCAD

E. Publications:

1. Bala, B.K., Satter, M.A. and **Biswas, B.K.** The Utilization Pattern of Animal Draft Power and Cow Dung in Bangladesh. *Bio-Resource Technology*, **41**: 1-8, 1992, U.K.
2. Bala, B.K., Zaman, M.A. and **Biswas, B.K.** and Hussain, M.I. Studies on Storage of Paddy in Three Different Types of Traditional Storage Systems. *Agricultural Engineering Journal*, **2**(3): 121-137, 1993, Thailand.
3. Bala, B.K., Zaman, M.A., **Biswas, B.K.** and Khondokar, A.R. Experimental Studies on Storage of Paddy in Different Types of Traditional Storage Systems. *Trop. Sci.*, **34**: 289-296, 1994, UK.
4. Bala, B.K., Bhuiya, S.H. and **Biswas, B.K.** Simulation of Electric Power Requirements and Supply Strategies: The Case of Bangladesh. *Journal of Energy and Environment*, **1**: 85-92, 1999, BUET, Dhaka.
5. Bala, B.K., Mondol, M. R. A., **Biswas, B.K.**, Das Choudhury, B. L. and Janjai, S. Solar Drying of Pineapple Using Solar Tunnel Drier. *Renewable Energy*, **28**: 183-190, 2003.
6. **Biswas, B.K.**, Svirezhev, Yu. and Bala. B.K. A Model to Predict Climate Change Impact on Fish Catch in the World Oceans. *IEEE Transactions on Systems, Man and Cybernetics, Part A.*, **35**(6): 773-783, 2005.
7. **Biswas, B.K.**, Majumder, S. and Bala, B.K. Regression Model for Forecasting Fish Catch in the World Oceans. *Journal of Statistical Studies*, **25**: 1-8, 2005.
8. Bala, B.K., Matin, M.A., Rahman, M. M, **Biswas, B.K.** and Ahmed, F.U. Computer Modelling of Integrated Farming Systems and Environment: The Case of Bangladesh. *International Journal of Agricultural Sustainability*, 2006.
9. **Biswas, B.K.**, Svirezhev, Yu. M., Bala. B.K. and Wahab, M.A. Climate Change Impacts on Fish Catch in the World Fishing Grounds. *Climate Change*, **93**(1-2): 117-136, 2008.
10. Azad, M.A.K, Nath, B.C, Saha, R.C., **Biswas, B.K.**, and Vhutto, M.Z.A. Preparation and Performance Quick-Cooking Chickpea (*Cicer arietinum* L.). *Eco-friendly Agril. J.*, **1**(1): 48-52, 2008.

11. Hossain M.A., Zami M.A., Mamun M.A.A., Islam S.M.M. and **Biswas B.K.** Cone Penetration Resistance of BRRI Rice Bed Soil. International Journal of Bio Research, **6(2)**: 40-45, 2009.
12. Zami A, Hossain M A, Sayed, M. A, **Biswas B.K.** and Hossain M.A. Performance Evaluation of the BRRI Reaper and Chinese Reaper Compared to Manual Harvesting of Rice (*Oryza sativa* L.), The Agriculturists, **12(2)**: 142-150, 2014.

F. Proceedings

1. Bala, B.K., Zaman, M.A. **Biswas, B.K.** and Khondker, A.R. Experimental Studies on Storage of Paddy in Different Types of Traditional Storage Systems. Presented at First Biennial Conference 1991 held on 18-20 January, 1992 at Bangladesh Agricultural University, Mymensingh, Bangladesh.
2. Bala, B.K., Matin, M.A., Rahman, M. M., **Biswas, B.K.** and Ahmed, F. U. Computer Modelling of Integrated Farming Systems and Environment: The Case of Bangladesh. Proceedings of the Ninth National Conference on System Dynamics, December, 26-29 2000, Hyderabad, India.
3. **Biswas, B.K.**, Bala, B.K. and Svirejhev, Yu. Climate Change Impacts on Fish Catch in the World Fishing Grounds. Proceedings of The XII Th Global Warming International Conference and Expo held at Cambridge, UK on April, 8-11, 2001.
4. **Biswas, B.K.**, Svirejhev, Yu. and Bala, B.K. A Model to Predict Climate Change Impact on Fish Catch in the Indian Ocean. Proceedings of International Conference on Mechanical Engineering held at BUET, Dhaka, Bangladesh on December, 26-28, 2001.
5. Bala, B.K., Mondol, M. R. A., **Biswas, B.K.** and Das Choudhury, B. L. Solar Drying of Pineapple Using Solar Tunnel Drier. Proceedings of International Conference on Mechanical Engineering held at BUET, Dhaka, Bangladesh on December, 26-28, 2001.
6. Alam, M.M., Islam, M.S., **Biswas, B.K.**, Bose, S., Baral, A.R. and Hossain, M.A. Farm Machinery Need Assessment: A Participatory Approach. Proceedings of the 2nd Annual Paper Meet, Agricultural Engineering Division, The Institution of Engineers, Bangladesh, 20 November, 2002, 172-181.
7. Hossain, M.A., Zami, M.A, **Biswas, B.K.**, and Rahman H. Design and Development of a Solar Light Trap for Insect Management. Proceedings of the Conference on Food and Nutrition Security in Bangladesh: Interdisciplinary Approaches held at Dhaka, Bangladesh on October, 7-8, 2017.
8. Hossain, M.A., Zami, M.A, **Biswas B.K.**, Rahman, H. and Mridha, M.A.H. Development of a Power Tiller Operated Safe Grain Cleaner. Proceedings of International Conference on Research and Extension for Sustainable Rural Development held at RDA, Bogra, Bangladesh on February, 15-16, 2018.

G. Bulletin:

1. Svirejhev, Yu. and **Biswas, B.K.** Climate Change Impact on Fish Catch in the Indian Ocean: An Attempt of Statistical Forecasting. Potsdam Institute for Climate Impact Research, Potsdam, Germany, 1999.
2. Zami A, **Biswas B.K.**, Hossain M A, Hossain M.A., and Islam, M.K. Introduction of a Newly Development Self-propelled Reaper to Augment Crop Production. Workshop Machinery and Maintenance Division, BRRI, Gazipur, Bangladesh, 2012.
৩. জামী এমএ, বিশ্বাস বিকে, হোসেন এমএ, হোসেন এমএ, ইসলাম এমকে. ব্রি স্বচালিত ধান গম কাটার যন্ত্র. ওয়ার্কশপ মেশিনারী অ্যান্ড মেইন্টেন্যান্স বিভাগ, ব্রি, গাজীপুর, ২০১২.

H. Outstanding Achievement/Award

- (a) Achieved **distinction certificate** in “**1-Month rice production training course**” held at from 21 March to 19 April, 2010 at, BRRI, Gazipur
- (b) Best paper award for the paper titled “*Computer Modelling of Integrated Farming Systems and Environment: The Case of Bangladesh*” presented in the Ninth National Conference on System Dynamics, December 26-29, 2000, Hyderabad, India.
- (c) **Fellow as a doctoral student** in the Department of Integrated System Analysis, Potsdam Institut Fur Klimafolgenforschung (PIK), **GERMANY** under **DAAD Sandwich Scholarship Programme** from June 1996 to April 1999.
- (d) **Senior NST** (National Science and Technology) **fellow** under Bangladesh Ministry of Science and Technology fellowship programme as a doctoral student from July, 1994 to June, 1996.

(Dr. Biraj Kumar Biswas)

E-mail: biraj1963@yahoo.com

Mobile: 01718645319

01732485332