CURRICULUM -VITAE

A. Personal Details:

1. Name : **DR. BIRAJ KUMAR BISWAS**
2. Father's Name : Rebati Mohan Biswas
3. Mother's Name : Urmila Biswas
4. Permanent Address : Village - Sripur, P.O.- Hazratala, Upazilla- Sripur, District - Magura, Bangladesh
5. Present Address : Workshop Machinery & Maintenance Division, Bangladesh Rice Research Institute (BRRI), Gazipur-1701 BANGLADESH
   Mobile: 01718 645319
   E-mail: biraj1963@yahoo.com
6. Nationality : Bangladeshi
7. Religion : Sonaton (Hindu)
8. Marital Status : Married
9. Date of Birth : 7 January, 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
Higher Secondary Certificate (HSC)	First division	Jessore Board	1980
Secondary School Certificate (SSC)	First division	Jessore Board	1977

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. Worked as a ***"Co-Principal Investigator"*** in a research project "Design, development, modification and introduction of self-propelled reaper and mini-power tiller to augment crop production" under Workshop Machinery and Maintenance Division of Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Bangladesh since July 10, 2010 to 30 April 2014.

   Responsibilities:
   Design, development, modification and introduction of self-propelled reaper and mini-power tiller.

3. 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 1st April 2005 to 15 August 2007 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.

4. 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.

5. 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.

6. 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.

7. 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. Computer Literacy:

BASIC, Qbasic, FORTRAN, MS Word, MS Excel, MS Power Point, Graphics dBASE IV, Quattro, Microstat, SPSS, DYNAMO, STELLA 5.

E. Training:

A training course on "Administration, Office Management and Communication" organised by Graduate Training Institute of Bangladesh Agricultural University, Mymensingh, Bangladesh from 12.02.1989 to 25.02.1989.

F. 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. **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.

3. 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.

4. 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.

5. 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.

6. 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.

7. **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.

8. **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.

9. 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.

10. 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.

11. 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.

12. **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.

13. **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.

14. 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.

15. **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.

16. Azad, MAK, Nath, BC, Hasa, RC, **Biswas, B.K.,** and Vhutto, MZA**.** Preparation and Performance Quick-Cooking Chickpea (*Cicer arietinum* L.). Eco-friendly Agril. J, **1**(1): 48-52, 2008.

17. Hossain MA, Zami MA, Mamun MAA, Islam SMM and **Biswas B.K**. Cone Penetration Resistance of BRRI Rice Bed Soil. International Journal of Bio Research, **6**(2): 40-45, 2009.

18. 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.

G. Award:

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.

H. Fellowship:

a. 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.

b. 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)
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