

CURRICULAM VITAE

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Permanent address : Village: Rasulpur, P.O.: Sadekpur
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Date of birth : November 22, 1964

Date of joining : November 21, 1994

Nationality : Bangladeshi

Marital status : Married

Educational qualifications:

| Certificate | Class/ Division | Board/University | Year of passing | Marks obtained | |
|--|---|---|------------------------|----------------|-------|
| | | | | Total | (%) |
| S.S.C | 1 st Division | Dhaka Board | 1980 | 700 | 70.0 |
| H.S.C | 1 st Division | Dhaka Board | 1982 | 637 | 63.7 |
| B.Sc. Agril. Engg. (Irrigation & Water Management) | 1 st Class (3 rd position) | Bangladesh Agricultural University, Mymensingh | 1986 (held in 1989) | 2827 | 64.25 |
| MS in Irrigation & Water Management | 1 st Class ("A" Grade) | Bangladesh Agricultural University, Mymensingh | 1999 | 1141 | 71.31 |
| PhD in Irrigation and Water Management | Satisfactory | Bangladesh Agricultural University, Mymensingh | 2014 | - | - |

MS Thesis: Technical and Economical Performance of Flexible Hose Pipe Method of Water Distribution System. Bangladesh Agricultural University, Mymensingh-2202

PhD Thesis: Development of Cost-effective Water-saving Technologies for Rice Production in Bangladesh

Training:**In-country:**

| Title | Organized by | Duration |
|---|--|-------------------------------|
| Comprehensive Training in Agril. Engg. & Tech. | Faculty of Agril. Engg. & Tech., BAU, Mymensingh | June 17-23, 1989 |
| Research Planning and Evaluation | BARC, Dhaka & BARI, Gazipur | June 06-20, 1991 |
| Rice Production, Applied Research, Communication & Administration | BRRRI, Gazipur | Dec. 03, 1994 – Jan. 31, 1995 |
| EIA Course-2000 | EGIS II Office, Dhaka | June 06-20, 2000 |
| Irrigation Management and land Use Development Planning | BARD, Comilla | March 20-April 01, 2004 |
| Groundwater Management | BUET, Dhaka & DUT, The Netherlands | August 21-24, 2005 |
| AWhere-ACT and GIS based BCA | BRRRI and CIMMYT | May 08-09, 2006 |
| Capacity Development for farm Management Strategies to Improve Crop Water Productivity using AquaCrop Model | FAO, Bioforsk, Norway and BRRRI | October 08-12, 2012 |
| Decision Support System for Agro-technology Transfer (DSSAT) Model Training Course | BRRRI, Gazipur | February 09-13, 2013 |
| Effects of Climate Change on Food Security | IWM, Dhaka | April 24-25, 2013 |
| Climate Scenario, Water Resources Availability Assessment and Crop Modelling | CEGIS, Dhaka | June 09-15, 2013 |
| Modeling Climate Change Impact on Bangladesh Agriculture | BRAC-CDM, Rajendrapur, Gazipur | July 27- August 03, 2013 |
| Climate Change Adaptation | CDMP, Dhaka | September 15-16, 2013 |
| Application of GIS and Remote Sensing in Crop Production and Natural Resource Management | BRAC-CDM, Savar, Dhaka | November 02-07, 2013 |
| 1 st JAXA Training for ALOS-2 Data Applications using ALOS Archive Data | SPARRSO, Dhaka | February 17-19, 2014 |
| Modeling Climate Change Impact on Bangladesh Agriculture using DSSAT | BRAC-CDM, Savar, Dhaka | June 07-19, 2014 |
| Modeling Crop Growth using InfoCrop and WOFOST | BRAC-CDM, Savar, Dhaka | August 19-23, 2014 |
| Crop Growth Modeling of Chickpea, Maize, Jute and Sugarcane using DSSAT | BRAC-CDM, Savar, Dhaka | August 26-28, 2014 |
| Hands-on Training on IDRISI and GIS | BRAC-CDM, Savar, Dhaka | August 30 – Sept. 02, 2014 |
| JAXA SAR-Data Training preparing for ALOS-2 Satellite Data Use | SPARRSO, Dhaka | February 24-26, 2015 |

Overseas:

| Title | Organized by | Duration |
|--|---|-----------------------|
| On Farm Irrigation and Water Management | DTEC & AETC, Thailand | March 26-May 23, 1997 |
| Advance in Agricultural Water Productivity Assessment and Improvement in Irrigation Scheme | Copenhagen University and AIT, Thailand | October 03-09, 2009 |

Experiences:

- a) Working as a Senior Scientific Officer under Irrigation and Water Management Division, Bangladesh Rice Research Institute, Gazipur from April 1999 to date. Working as a Working Scientist of a project entitled “Climate Change Impacts, Vulnerabilities and Adaptation: Sustaining Rice Production in Bangladesh” – a collaborative project of BIRRI-CEGIS-BIOFORSK, funded by Norway. Worked as a Working Scientist of water management related “Adoptive Crop Agriculture Including Innovative Farming Practices in Coastal Region of Bangladesh” funded by DFID through CEGIS from October, 2006 and also worked as a Working Scientist of “Development and Dissemination of Water Saving Rice Technologies in South Asia” in collaboration with IRRI from July, 2006. The main responsibilities are:
- To plan and design of research experiments related to field level water productivity, distribution system improvement and groundwater utilization;
 - To execute the research program;
 - To collect data and analyze;
 - To write report(s) based on research findings; and
 - To prepare concept note, research proposal and project related different reports as and when necessary basis
- b) Worked as a Working Scientist in Integrated Crop Management (ICM) sub-project under PETRRA funded from October, 2001 to June 2004. Moreover, I also worked as a researcher of the Rice-Wheat System Research project funded by IRRI during 2000-01. The main responsibilities were:
- To plan and design of research experiments related to field level water productivity, distribution system improvement and groundwater utilization;
 - To execute the research program;
 - To collect data and analyze;
 - To write report(s) based on research findings; and
 - To prepare concept note, research proposal and project related different reports as and when necessary basis
- c) Worked as a Scientific Officer under Irrigation and Water Management Division, Bangladesh Rice Research Institute, Gazipur from November 1994 to June 1995 and BIRRI Regional Station, Barisal from July 1995 to April 1999. The main responsibilities were:
- To plan and design of research experiments related to field level water productivity, distribution system improvement and groundwater utilization;
 - To execute the research program;
 - To collect data, analyze; and
 - To write report(s) based on research findings
- d) Worked as a Scientific Officer for **Irrigation System Plan and Design** (open channel and buried pipe) at Debiganj Farm under the supervision of Irrigation and Water Management Division, BARI, Gazipur and Crop Diversification Programme (CDP) Khamarbari, Farmgate, Dhaka from March 1993 to February 1994.

- e) Worked as a Scientific Officer of the World Bank financed project entitled “**A Study on Recharge and Depletion Characteristics of Aquifers in Comilla Region**” being implemented by Irrigation and Water Management Division, BARI, Gazipur from December 1989 to June 1992.

Publications:

A. Research Articles:

- B.R. Khan, M. Mainuddin, M.A.A. Miah, M.N. Molla & **M. Maniruzzaman**. 1992. Evapotranspiration from lentil. *J. Agric. Engg.*, Vol. 6 (1&2): pp.63-68.
- B.R. Khan, M. Mainuddin, M.N. Molla & **M. Maniruzzaman**. 1994. Characteristics of border irrigation for wheat in a clayey soil. *J. Agric. Science*, Vol.21 (2): pp.278-295.
- M. Maniruzzaman**, M.S.U. Talukder, B.R. Khan and M.M.U. Ahmed. 1995. Development of an orifice meter and its use for estimating annual groundwater abstraction rate of Muktagacha Thana. *J. Agric. Science*, Vol.22 (1): pp.73-82.
- M. Maniruzzaman**, M.S.U. Talukder, M.A. Sattar and M.T. Islam. 2000. Economic performance of flexible hose pipe for irrigation water distribution from shallow tubewell. *J. Agric. Engg.*, Vol.11 (1&2): pp.23-37.
- M. Maniruzzaman**, M.M.Alam, F.I.M. Golam Wahed Sarker, M.T. Islam and M.N. Islam. 2001. Alternative water distribution system in a Deep Tubewell site: An economic evaluation. *Bangladesh Rice J.* 10(1&2): 67-73.
- M T Islam, L R Khan and **M Maniruzzaman**. 2001. Changes of drought in transplanted aman rice cultivation in Barind area. *Bangladesh Rice J.* 10(1&2): 75-81.
- M. Maniruzzaman**, M.M.Alam, F.I.M. Golam Wahed Sarker, M.T. Islam and M.N. Islam. 2002. Water saving technique through improved water distribution system in Deep Tubewell area of Bangladesh. *OnLine J. of Biological Science*, Faisalabad, Pakistan, Vol. 2 (3): pp.178-182.
- M. Maniruzzaman**, M.S.U. Talukder, M.A. Sattar and M.T. Islam. 2002. Performance of flexible hosepipe for water distribution from shallow tubewells. *J. of the Institution of Engineers*, Bangladesh. *Agric. Engg. Division*, Vol. 29/AE (1): pp.11-19.
- M.M. Alam, M.K. Mondal, **M. Maniruzzaman**, and M.N. Islam. 2002. Water savings techniques in minor irrigation: A review work. *J. of Agric. Engg.*, Vol.13 (1&2): pp.27-35.
- M.T. Islam, L.R. Khan and **M. Maniruzzaman**. 2002. Relationship of rainfall and drought in rainfed rice cultivation in Barind area. *J. of Agric. Engg.*, Vol.13 (1&2): pp.43-53.
- M. Maniruzzaman**, M.M.Alam, F.I.M. Golam Wahed Sarker and M.N. Islam. 2002. Alternative improved distribution system for minimizing irrigation water loss and cost in Deep Tubewell areas. *J. of Progressive Agriculture*. Vol. 13 (1&2): pp.143-153.
- M A Sattar, **M Maniruzzaman**, F I M Golam Wahed Sarker and K K Sarker. 2002. Technical and economical performance of alternative irrigation distribution systems for promoting development through GO–NGO partnership. *J. of Agricultural Economist Association*. Vol. XII.
- M. Maniruzzaman** and M M Alam. 2005. Suitable joint and length of Hose pipe for efficient water distribution in Shallow Tubewell Irrigation. *J. of Progressive Agriculture*. Vol. 16(2): pp.211-218.
- M.S. Kabir, **M. Maniruzzaman**, M.A. Saleque, J.C. Biswas and M.A. Sattar. 2007. Soil fertility mapping at micro level: A case of Jotgobardhan village in Kurigram district. *Intl. J. BioRes.* 3(1): 22-29.
- J.C. Biswas, **M. Maniruzzaman**, M.S. Kabir, M.A. Sattar and M.A. Saleque. 2007. Development of soil fertility map at village level for rice production. *Bangladesh Rice J.* 12(1&2): 9-15.
- M. Maniruzzaman**, J.C. Biswas, M.S. Kabir, M.A. Saleque, and M.A. Sattar. 2008. Soil fertility mapping at micro level for rice production: Proshadkalua village. *Bangladesh Rice J.* 13(1): 23-29.

J.C. Biswas, **M Maniruzzaman** M.A. Sattar and M G Neogi. 2008. Improvement of existing rice yield through recommended fertilizer and cultural management at farmers' field. Bangladesh Rice J. 13(1): 9-14.

M. Maniruzzaman and J.C. Biswas. 2013. Water and fertilizer productivity in dry season irrigated rice at farmer's field. Bangladesh Rice J. 17(1&2): 55-62.

M Maniruzzaman, Dr M S U Talukder, Dr K M Hassanuzzaman, Dr Jatish C Biswas and Dr Attila Nemes, 2015. Validation of the AquaCrop Model for Irrigated Rice Production under Varied Water Regimes in Bangladesh. Paper submitted in Agril. Water Mgt.

B. Short Communication:

B C Roy, G M Panaullah and **M Maniruzzaman**. 2004. Effect of hill damage on yield of T. Aman rice in the tide prone areas of Bangladesh. Bangladesh Agron. J. 10(1&2): 145-148.

C. Abstracts:

M Maniruzzaman, M A Sattar, J C Biswas and M A Saleque. 1994. Wheat Yield Gap Reduction at Farmers Field Through Water and Fertilizer Management. Abstract published in "10th International Congress of Soil Science" held in Sindh Agricultural University, Tandojam, Pakistan during March 16-19, 2004.

M Maniruzzaman, J C Biswas and M A Sattar. 1994. Effect of Water and Fertilizer Management on Boro Rice Cultivation at Farmers Field. Abstract published in "10th International Congress of Soil Science" held in Sindh Agricultural University, Tandojam, Pakistan during March 16-19, 2004.

D. Workshop/Seminar papers:

National:

M.H. Rashid, M.S. Islam & **M. Maniruzzaman**. 1994. Hydrogeologic properties and water qualities of aquifers at Comilla Sadar Thana. Paper presented to the 'National Workshop on Groundwater Resources' at Bangladesh Agric. Res. Council, Dhaka, 28-29 June 1994.

M.H. Rashid, M.S. Islam & **M. Maniruzzaman**. 1994. Development of groundwater at Comilla Sadar Thana. Paper presented to the 'National Workshop on Groundwater Resources' at Bangladesh Agric. Res. Council, Dhaka, 28-29 June 1994.

M. Maniruzzaman, M M Alam and M N Islam. 2002. Alternative hose pipe fittings for efficient irrigation water distribution in STW area. Paper presented to the "2nd Annual Paper Meet" at BARI, Gazipur, 22 December 2002.

Dr. M A Sattar, **M Maniruzzaman** and F I M Golam Wahed Sarker. 2002. Participatory improved water distribution system: A technical and economic assessment in ICM project area. Paper presented to the "2nd Annual Paper Meet" at BARI, Gazipur, 22 December 2002.

M. Maniruzzaman, M.A. Sattar, F.I.M. Golam Wahed Sarker and K.K. Sarker. 2003. Improving water use efficiency in Boro rice cultivation. Paper published in Proceedings of the First Annual Workshop of ICM sub-project in Northern Region of Bangladesh. June 28, 2003.

M. Maniruzzaman, M.A. Sattar, J.C. Biswas and M.A. Saleque. 2003. Influence of fertilizer and irrigation on performance of wheat. Paper published in Proceedings of the First Annual Workshop of ICM sub-project in Northern Region of Bangladesh. June 28, 2003.

- J.C. Biswas, M.A. Saleque, **M. Maniruzzaman** and M.A. Sattar. 2003. Soil test based fertilizer management for rice production at farmers' field. Paper published in Proceedings of the First Annual Workshop of ICM sub-project in Northern Region of Bangladesh. June 28, 2003.
- F.I.M. Golam Wahed Sarker, M.A. Sattar and **M. Maniruzzaman**. 2003. Socio economic conditions and livelihoods status of resource-poor farmers at ICM project sites. Paper published in Proceedings of the First Annual Workshop of ICM sub-project in Northern Region of Bangladesh. June 28, 2003.
- F.I.M. Golam Wahed Sarker, M.A. Sattar and **M. Maniruzzaman**. 2003. Farm resource use and economic returns from crop production by resource-poor farmers at ICM project sites. Paper published in Proceedings of the First Annual Workshop of ICM sub-project in Northern Region of Bangladesh. June 28, 2003.
- M. Maniruzzaman**, M.A. Sattar and J.C. Biswas. 2004. Efficient irrigation water management for Boro rice cultivation. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- M. Maniruzzaman**, J.C. Biswas and M.A. Sattar. 2004. Effect of water and fertilizer management on Boro rice cultivation. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- M. Maniruzzaman**, M.A. Sattar, J.C. Biswas and M A Saleque. 2004. Wheat yield gap reduction at farmer's field through water and fertilizer management. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- Dr. M A Sattar, **M. Maniruzzaman** and f I M Golam Wahed Sarker. 2004. Participatory irrigation infrastructure development and its adoption in ICM project areas. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- J.C. Biswas, M A Saleque, **M. Maniruzzaman** and M.A. Sattar. 2004. Alleviation of rice yield gap at farmer's field through fertilizer and agronomic management. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- J.C. Biswas, **M. Maniruzzaman**, M.A. Sattar and M G Neogi. 2004. Increasing land productivity through improved cropping patterns at farmers' field. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.
- F I M Golam Wahed Sarker, Dr. M A Sattar and **M. Maniruzzaman**. 2004. Economic importance of supplemental irrigation on Transplanted Aman rice. Paper published in Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh. February 25, 2004.

International

- Dr. M A Sattar, Dr. M A Baqui and **M Maniruzzaman**. 2005. Multiple Use of water in Rainfed and Irrigated Systems for Increasing Water Use Efficiency and Crop productivity in Bangladesh. Paper presented in the Workshop on Multiple Water Use Systems for Productivity and Livelihood Improvement in Indo-Gangetic Basin. New Delhi, India, 6-7 December, 2005

M H Uddin, **M Maniruzzaman** and M Sh Islam. 2006. Research plan of the project. Paper presented in the Inception meeting of the ADB-supported project: “Developing and disseminating of water-saving rice technologies in South Asia” and Workshop on soil and root health issues in water-saving rice systems. IRRI, Philippines, 25-27 September, 2006.

M A Salam, M H Uddin, **M Maniruzzaman**, M Sh Islam and M R A Sarker. 2007. Research plan and result of the project. Paper presented in the First review planning meeting of the ADB-supported project: “Development and dissemination of water-saving rice technologies in South Asia”. RDA, Bogra, Bangladesh. 03-05 April, 2007.

E. List of Books/Book Chapter/Policy Manual

Irrigation management of field crops: Rice by **M. Maniruzzaman** and Debjit Roy. Book chapter in Irrigation management, Technologies and Environmental Impact. Editor: M Hossain Ali. Nova Publishers, Inc, New York, 2013.

Policy Manual of Climate Change Impact on Rice Production: Guidelines for Adaptation in Bangladesh. Jatish C Biswas, **M Maniruzzaman**, Uday S Nagothu and m H Sarker. BRRI-Bioforsk-CEGIS, Gazipur-1701, Bangladesh, 2014.

Climate Change and Adaptation: Crop production in drought and saline prone areas of Bangladesh. Editors: Jatish C Biswas and **M Maniruzzaman**. Climate Change and Rice Project, BRRI, Gazipur-1701, Bangladesh, 2014

F. List of Reports/Proceedings/Bulletin:

One year study report on **An Estimation of Annual Groundwater Abstraction Rate in Muktagacha Upazila** by **M. Maniruzzaman**, M. Ohiduzzaman, F.R. Baig and M.M. Nur. Dept. of IWM, BAU, Mymensingh, 1989.

Final project report on **A Study on Recharge and Depletion Characteristics of Aquifers in Comilla Region** by M.H. Rashid, **M. Maniruzzaman** and M.A.B. Kamal. IWM Division, BARI, Gazipur, 1992.

Irrigation and Water Management Programme, annual research report by B.R. Khan, M.S. Islam and **M. Maniruzzaman**. Irrigation and Water Management Division, BARI, Gazipur, 1993.

A report on **Irrigation System Plan and Design** by M.S. Islam and **M. Maniruzzaman**. Breeder Seed Production Centre, Debiganj, Panchagar. Commissioned by the CEA/CDP, IWM Division, BARI, Gazipur, 1994.

Final project report on **Rice-Wheat System Research (Funded by IRRI)**. By Dr. M.A. Sattar, M.N. Islam, M.A. Quayum, **M. Maniruzzaman** and M. Golam Wahed Sarker. In collaboration with BRRI and IRRI. BRRI, Gazipur, June 2001.

Participatory Farmers’ Training Manual (Funded by PETRRA). A farmers’ training manual of ICM project sites. Edited by M.A. Sattar, M. Golam Wahed Sarker and **M. Maniruzzaman**. In collaboration with GKF, RDRS and BRRI. BRRI, Gazipur, January 2002. Vol. 2, Training-1.

Consultancy report on Irrigation Potentialities for Crops and Vegetables Production in Char Areas for Livelihood Improvement by M.A. Sattar, M. Golam Wahed Sarker and **M. Maniruzzaman**. Department of International Development Bangladesh: Char Livelihoods Programme. April 2002.

Benchmark Survey Report on Integrated Crop Management (ICM) in North-West Region of Bangladesh (Funded by PETRRA) by M.A. Sattar, F.I.M. Golam Wahed Sarker and **M. Maniruzzaman**. In collaboration with BIRRI GKF and RDRS. BIRRI, Gazipur, October 2002.

Brief Project Activities of Integrated Crop Management in North-West Region of Bangladesh by **M. Maniruzzaman**, M. Golam Wahed Sarker, J.C. Biswas and M.A. Sattar. In collaboration with BIRRI GKF and RDRS. BIRRI, Gazipur, October 2002.

Annual Report on **Integrated Crop Management (ICM RP25 01) in North-West Region of Bangladesh (October 2001 to June 2002)** by **M. Maniruzzaman**, F.I.M Golam Wahed Sarker, J.C. Biswas and M.A. Sattar. In collaboration with BIRRI GKF and RDRS. BIRRI, Gazipur, November 2002.

“Field Level Farmers’ Training Manual (Funded by PETRRA)”. A farmers’ training manual of ICM project sites. Edited by M. Golam Wahed Sarker, **M. Maniruzzaman** and M.A. Sattar. In collaboration with GKF, RDRS and BIRRI. BIRRI, Gazipur, January 2003. Vol. 3, Training-2.

Annual Report on **Integrated Crop Management (ICM RP25 01) in North-West Region of Bangladesh (July 2002 to June 2003)** by **M. Maniruzzaman**, J.C. Biswas, F.I.M Golam Wahed Sarker, and M.A. Sattar. In collaboration with BIRRI GKF and RDRS. BIRRI, Gazipur, June 2003.

Proceedings of the First Annual Workshop of ICM Sub-project in Northern Region of Bangladesh by J.C. Biswas, M.G. Neogi, M. Golam Wahed Sarker, **M. Maniruzzaman**, M.R.I. Chowdhury and M.A. Sattar. In collaboration with BIRRI GKF and RDRS. BIRRI, Gazipur, June 2003.

Proceedings of the Workshop on Integrated Crop Management (ICM) in Northern Region of Bangladesh by J.C. Biswas, **M. Maniruzzaman** and Dr. M A Sattar. In collaboration with BIRRI, GKF and RDRS. BIRRI, Gazipur, February 2004.

Proceedings of the regional Workshop on Climate Change Impacts, Vulnerability and Adaptation: Sustaining Rice production in Bangladesh by Jatish C Biswas and **M Maniruzzaman**. Climate Change and Rice Project, BIRRI, Gazipur-1701, Bangladesh, 2014

G. Popular Articles:

Saving water and time: co-operative irrigation methods. Articles published in Interface, the quarterly newsletter from PETRRA. Issue No. 1/2003.

Dr. M A Sattar and **M Maniruzzaman (2004)**. Plastic pipes for increasing irrigation efficiency. Articles published in SAIC Newsletter, Vol. 14 No. 3.

Validation of DRAS model: CEGIS collaboration with BIRRI and BARI. Articles published in the CEGIS Newsletter. Issue No. 3, January, 2004.

Date:

Md. Maniruzzaman