

## RESUME OF RESEARCH PROJECT DIRECTOR

<p><b>Mst. Afrose Jahan</b> Mailing Address:  Professor  Department of Soil Science  Sher-e-Bangla Agricultural University  Sher-e-Bangla Nagar, Dhaka, Bangladesh  ☎ : +88-01911232482 (Mobile)  e-mail jahansau@yahoo.com</p>	
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### 1. PERSONAL INFORMATION:

Daughter of : Md. Habibur Raham and Mst. Noor Jahan Begum

Permanent Address : 91/1 West Agargaon, Dhaka- 1207

Present Address : Department of Soil Science  
Sher-e-Bangla Agricultural University  
Sher-e-Bangla Nagar, Dhaka, Bangladesh

Date of Birth : 8th July 1967

Place of Birth : Dhaka, Bangladesh

Nationality : Bangladeshi

Marital Status : Married

Religion : Islam

### 2. Academic degrees held:

Subject	Name of Degree	University	Year of Graduation	Major Field	Minor field
Soil Science	M.S. (Soil Science)	BSMRU (IPSA) Shalna, Gazipur	1995	Soil Science	Agronomy Statistics
Agriculture	B. Sc. Ag. (Hons.)	BAU	1988( held in 1991)	Agriculture	Environmental science
Science	H.S.C.	Rajshahi Board	1984	Science	Agril. Physics
Science	S.S.C.	Rajshahi Board	1982	Science	—

### 3. PROFESSIONAL CAREER:

Designation	Organization	From	To
<b>Professor Department of Soil Science</b>	Sher-e-Bangla Agricultural University, Dhaka	24-05-2012	Till date
<b>Associate Director Outreach Program</b>	Sher-e-Bangla Agricultural University, Dhaka (SAU)	10.07.2011	08.02.2012
<b>Chairman (Additional in charge) Department of Soil Science</b>	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	09-02-2012	<b>08-02-14</b>
<b>Provost</b>	Krishakratna Shiekh Hasina Hall Sher-e-Bangla Agricultural University, Dhaka (SAU)		
<b>Provost</b>	Krishakratna Shiekh Hasina Hall Sher-e-Bangla Agricultural University, Dhaka (SAU)		
<b>Associate Professor Department of Soil Science</b>	Sher-e-Bangla Agricultural University, Dhaka	24-05-2007	23-05-2012
<b>Assistant Provost</b>	Begum Fazilatunnesa Mujib Hall Sher-e-Bangla Agricultural University, Dhaka (SAU)	01.01.2003	08.02.2006
<b>Assistant Professor Department of Soil Science</b>	Sher-e-Bangla Agricultural University, Dhaka	11-09-2001	23-05-2007
<b>Lecturer Department of Soil Science</b>	Sher-e-Bangla Agricultural University, Dhaka	05-05-1996	10-09-2001

#### 4. ADDITIONAL ADMINISTRATIVE EXPERIENCES:

**Ex. - Chairman** : Department of Soil Science  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**Ex. - Chairman of the Examination Committee** : Department of Soil Science  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**Ex. - Chairman of the Academic Committee** : Department of Soil Science  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**Ex. - Provost** : Begum Fazilatunnesa Mujib Hall and Krishakratna Shiekh Hasina Hall  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**Ex :- Associate Director** Outreach Program, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**Member** : **i) Academic Council**  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**ii) Executive Committee of the Faculty of Agriculture**  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**iii) Planning Committee**  
Department of Entomology  
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

#### 5. ADDITIONAL PROFESSIONAL EXPERIENCES:

##### Major responsibilities:

- a. Teaching in graduate and postgraduate levels in both theoretical and practical courses
- b. MS students supervised
- c. Co-Supervising M.S students
- d. Conducting research works.

**Supervisor** : Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**(Post- graduate)**

**Examiner** : Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

**PROFESSIONAL SOCIETIES:**

**Member** : i) Sher-e-Bangla Agricultural University Teachers' Association

ii) Agriculturist Institution of Bangladesh

iii) Bangladesh Soil Science Society

**6. LIST OF PUBLICATIONS:**

A) Scientific full paper in journal

Publications : Full length paper- 26

1. Faruque, A., Hashem, A. and **Jahan, A.** 1996. Productivity and profitability of potato intercropping with wheat. Bangladesh J. Bot. Vol. 25 (1), p. 1-4.
2. Faruque, A., Karim, A. and **Jahan, A.** 1999. Effect of different management practices on the productivity and profitability of mustard under late-sown condition. Bangladesh J. Agril. Res. Vol. 24 (3), p. 425-430.
3. **Jahan, A.**, Haider, J. and Faruque, A. 1999. Response of Brassica green to N, P, K S and Zn fertilization. Bangladesh J. Agril. Res. Vol. 24 (3), p. 405-413.
4. JAkhteruzzaman, M., Faruque, A., Karim, A., **Jahan, A.**, and Jahan, A. H. M. S. 2000. Effect of Row Spacing and Nitrogen Level on the Performance of Barley (*Hordeumvulgare* L.). J. Agril.Edu. and Tech. Vol. 3(1&2), p. 27-30.
5. M.N. Solaiman, M.J. Rahman, M.M. Hossain, M.N Islam and **M.A. Jahan.2005.** Effect of bio-fertilizers on nodulation and nitrogen uptake in mungbean. J. Subtrop. Agric. Res. Dev. 3(1),p. 1-7.
6. M. Akhteruzzaman., F. Ahmed., A., Karim, A.A. Begum., **A.Jahan.,A.**, and M.N. Islam., S. 2006. Effect of plant spacing and nitrogen fertilizer on the performance of hybride sweet corn. J. egril.educ. technol. 9(1&2), p. 73-76.
7. Faruque, A., Quayyum, M. A., **Jahan M. A.** and Jahan M.A.H.S. 2006. "Intercropping of carrot and bushbean with maize at different planting systems. J. Bangladesh Agril. Univ. 4 (2): 193-199.
8. Faruque, A., Quayyum, M. A., **Jahan M. A.** and Jahan M.A.H.S. 2006. "Intercropping of carrot and bushbean with maize at different planting systems. J. Bangladesh Agril. Univ. 4 (2): 193-199.

9. Faruque, A. ; Saha, R. R.; **Jahan M. A.** and Khan M. S. A. 2007. Grain and fodder yield from the same hybrid maize as influenced by source-sink manipulation J. Bangladesh Agril. Univ. 5(2): 177-180.
10. M.S. Islam, C.W. Sultana, **M.A. Jahan**, M.M. Hoossain, and M.S. Hasan. 2007. Influence of seed size on growth, yield and seed quality of groundnut. Int. J. Sustain.Agril. Tech. 3(6): 28-31.
11. M.S. Islam, M.M. Hoossain, M.S. Hasan, C.W. Sultana, C.W. Sultana, **M.A. Jahan**. 2007. Effect of leaf area index and dry matter production on the yield of three Aus Rice varieties under different fertilizer levels. Int. J. Sustain.Agril. Tech. 3(5) . 32-36
12. M.S. Islam, C.W. Sultana, **M.A. Jahan**, M.M. Hoossain, and M.S. Hasan. 2008. Effect of Molybdenum on nodulation, growth and yield of Effect of Molybdenum on nodulation, growth and yield of soybean. Bangladesh J. prog. Sci.& Tech. prog. Sci.& Tech.6(1) 209-212.
13. Faruque, A. Islam, M. N., Kakon S.S., Rahman M. T and **Jahan, M. A.** .2009. Drought stress effect at different growth stages on the growth and yield of hybrid maize. Bangladesh J. Agril. and Environ. 5(1): 83-88.
14. IM Ahmed,,MN Islam MT.Rahman, MT.Rahman, **M.A. Jahan**, M.Biswas. 2009. Productivity of fodder crops under intercropped with hybrid maize. Inti.J. Bio.Res, 7(4). 94-98.
15. Faruque, A. ; Khan, M. S. A., Hossain, M. A., **Jahan M. A.** and Mridha, A.J. 2010. Seed quality of soybean as influenced by pod position and their subsequent effect on yield. J. Expt. Biosci. 1(1): 1-6.
16. S. Nasrin and **M. A. Jahan**. 2010. Effect of nitrogen and phosphorus on the yield of bush bean. J. Expt. Biosci. 1(1). 19-24.
17. **M.A. Jahan**. M. M.. Hossain, S. Yesmin and M. S. Islam. 2010. Effect of nitrogen and potassium on growth, yield and nutrient concentration of onion. Int. J. Sustain.Agril. Tech. 6(5). 01-06.
18. M. M.. Hossain, **M.A. Jahan**. S.Yesmin and M. S. Islam. 2010. Effect of organic and inorganic fertilizers on the growth, yield and nutrient uptake by rice and status of post harvest soil. . Int. J. Sustain.Agril. Tech. 6(5). 11-17.
19. Faruque, A. Islam, M.N., Rahman, M. T., **Jahan, M.A.** and Khan, M.S.A. 2010. Leaf area index, radiation interception, dry matter production and grain yield of hybrid maize as influenced by plant spacing. Bangladesh Agron. J. 2010, 13 (1 & 2): 51-58.
20. Faruque, A. Islam, M.N., **Jahan, M.A.**, Rahman, M.T. and Ali, M.Z. 2011. Phenology, growth and yield of chickpea as influenced by weather variables under different sowing dates. J. Expt. Biosci. 2(2): 83-88.
21. M. A, Rahman, R.R. Saha, **M.A. Jahan**, B. Ahmed and N. Mocarroma. 2015. Screening of field pea genotypes against salinity stress under laboratory condition. *J. Expt. Biosci.* 6(2): 53-60.
22. F. Ahmed, **M.A. Jahan**, F. Kabir, B.L. Nag and A.H.M.M. Rahman Talukdar. 2015. Effect of leaf clipping on dry matter partitioning, grain and fodder yield of hybrid maize. *J. Expt. Biosci.* 6(2): 37-40.
23. **Jahan, M.A.** and **Faruque, A.** 2017. Effect of drought stress on growth and yield of wheat genotypes Bangladesh Agron. J. 2017, 20(2): 97-105.

24. **M.A. Jahan**, 2021. Effect of variety and irrigation management on growth and yield of wheat. *J. Expt. Biosci.* 12(2): 25-30.
25. Hoossain, M.M., Yesmin, S., Islam, M. Z. Hossain, M. A. and **Jahan, M. A.** (2021). Physiological attributes of mungbean (*Vigna radiata* L.) influenced by different sources of nutrients (NPK) in Madhupur tract region of Bangladesh. *Journal of Science, Technology and Environment Informatics*, 11(01), 736-748. Crossref:
26. **M.A. Jahan and** Monalesa, N. 2022. Identification of drought tolerant maize genotypes for sustainable productivity in drought prone environment *J. Expt. Biosci.* 13(1): 65-72.
27. **Jahan, M.A.** and Faruque, A. 2023. Selection of mungbean genotypes against waterlogging stress Bangladesh Agron. J. 2023, 26(1): 40-47.

**List of Research Publications: [Last five (05) years]**

1. **Jahan, A.**, Haider, J. and Faruque, A. 1999. Response of Brassica green to N, P, K S and Zn fertilization. *Bangladesh J. Agril. Res.* Vol. 24 (3), p. 405-413.
2. **M.A. Jahan.** M. M.. Hossain, S. Yesmin and M. S. Islam. 2010. Effect of nitrogen and potassium on growth, yield and nutrient concentration of onion. *Int. J. Sustain. Agril. Tech.* 6(5). 01-06.
3. M. A, Rahman, R.R. Saha, **M.A. Jahan**, B. Ahmed and N. Mokarroma. 2015. Screening of field pea genotypes against salinity stress under laboratory condition. *J. Expt. Biosci.* 6(2): 53-60.
4. F. Ahmed, **M.A. Jahan**, F. Kabir, B.L. Nag and A.H.M.M. Rahman Talukdar. 2015. Effect of leaf clipping on dry matter partitioning, grain and fodder yield of hybrid maize. *J. Expt. Biosci.* 6(2): 37-40.
5. **Jahan, M.A.** and **Faruque, A.** 2017. Effect of drought stress on growth and yield of wheat genotypes Bangladesh Agron. J. 2017, 20(2): 97-105.
6. **M.A. Jahan**, 2021. Effect of variety and irrigation management on growth and yield of wheat. *J. Expt. Biosci.* 12(2): 25-30.
7. Hoossain, M.M., Yesmin, S., Islam, M. Z. Hossain, M. A. and **Jahan, M. A.** (2021). Physiological attributes of mungbean (*Vigna radiata* L.) influenced by different sources of nutrients (NPK) in Madhupur tract region of Bangladesh. *Journal of Science, Technology and Environment Informatics*, 11(01), 736-748. Crossref:
8. **M.A. Jahan and** Monalesa, N. 2022. Identification of drought tolerant maize genotypes for sustainable productivity in drought prone environment *J. Expt. Biosci.* 13(1): 65-72.
9. **Jahan, M.A.** and Faruque, A. 2023. Selection of mungbean genotypes against waterlogging stress Bangladesh Agron. J. 2023, 26(1): 40-47.

## B) MS Theses:

- i) Effect of nitrogen and phosphorus application on the growth and yield of **Bush bean** (*Phaseolus vulgaris* L.)
- ii) Effect of phosphorus and sulphur on the growth and yield of Brri dhan 56
- iii) Effect of nitrogen and phosphorus on the growth and yield of Brri Dhan 38
- iv) Response of urea supergranule and prilled urea on growth and yield of **Boro rice**.
- v) Response of cowdung and urea on two **Boro rice** varieties under wetland cultivation.
- vi) Effect of zinc and boron on growth and yield of **Bari motorshuti-1**.
- vii) Study on yield performance of boro rice under different water management system
- viii) Effect of potassium and molybdenum on growth, yield and oil content of **Bari soybean-5**.
- ix) Effect of boron and molybdenum on growth and yield of **Bari motorshuti-1**.
- x) Effect of sulphur and molybdenum on the growth, yield and oil content of **Bari Soybean-5**.
- xi) Effect of nitrogen and phosphorus on the growth and yield of BRRRI dhan 57.
- xii) Effect of nitrogen on growth and yield of BARI Tomato-2 and **BARI Tomato-14**
- xiii) Influence of phosphorus and potassium on growth and yield of **Mungbean (BARI Mung- 6)**
- xiv) Effect of Nitrogen and Potassium on the Growth and Yield of **BARI Mashkalai-1 (Vigna mungo L.)**
- xv) **Growth and yield of Mungbean (BARI Mung 5) (Vigna radiata) in response of nitrogen and boron**
- xvi) Growth and yield of **Mungbean (BARI Mung-6)** as influenced by different levels of nitrogen (N) and phosphorus (P)
- xvii) Effect of nitrogen and phosphorus on the growth and yield of **BARI Mashkalai-1 (Vigna mungo L.)**
- xviii) The effect of Phosphorus and Zinc on the growth and yield of **BARI Til-3**
- xix) Effect of nitrogen and boron on the growth and yield of **Sesame**
- xx) Effect of different combinations of phosphorus (P) and Boron (B) on growth and yield of a selected **BARI Mung-6**
- xxi) Effect of nitrogen and phosphorus on growth and yield of **Rapeseed**
- xxii) **Effect of Sulphur and Zinc on the growth and yield of Wheat**
- xxiii) **Effect of nitrogen and boron on the growth and yield of Wheat (Triticum aestivum L.)** BARI Gom-28
- xxiv) Effect of nitrogen and zinc on growth and yield of **Bari chhola-2** (*Cicer arietinum* L.)
- xxv) Growth and yield performance of selected **wheat** genotypes at variable irrigation management
- xxvi) Influence of sulphur and boron on the growth, yield and oil content of **BARI Soybean-6 (Glycine max L.)**
- xxvii) Effect of Biochar on the growth and yield of wheat (*Triticum aestivum* L) under reduced irrigated condition
- xxviii) ffect of nitrogen and sulphur on growth and yield of **Black Gram**

- xxix) Effects of potassium and sulphur on the growth and yield of mungbean (**BARI Mung-6**)
- xxx) Effect of phosphorus and sulphur on the growth and yield of **BRRD Dhan 57**
- xxxi) -----and many more.

**Training and workshop attended by the Researcher:**

- Training –The training on ‘Induction Course’held at BARI, Joydebpur, Gazipur from April 11 to June, 1999.
- Training- The training on Use of Fertilizer Recommendation Guide- 2005 held during 20-21 September 2006 at BARC, Dhaka.
- Training – Workshop on “Curriculum Development, teaching methods, learning assessment and Self Assessment Procedure” Jointly organized by University Grants Commission of Bangladesh and Sher-e-Bangla Agricultural University under Higher Education Quality Enhancement Project held at Seminar room of Sher-e-Bangla Agricultural University, Dhaka held from 11 to 18 April, 2013.
- Training Course on “Teaching management and Learning Process” organized by Directorate of outreach program, Sher-e-Bangla Agricultural University held from 31<sup>st</sup> May to 1<sup>st</sup> June 2003.
- Day long Workshop on “Curriculum Development and Self Assessment Methodology” Jointly organized by University Grants Commission of Bangladesh and Sher-e-Bangla Agricultural University under Higher Education Quality Enhancement Project held at SAU Auditorium, Dhaka held on 2014.
- Countries of Work Experience : Bangladesh

Languages	:	Speaking	Reading	Writing
English	:	Good	Excellent	Excellent
Bangla	:	Mother Tongue	Excellent	Excellent

**Research Project Conducted by the Principle Investigator previous five (05) years:**

Title of the Research Project:

- i) Effect of Drought stress on Growth, Yield and yield components of wheat genotypes.

**Status:** 2013-2014 (Completed and Submitted)

- ii) Growth and yield performance of selected wheat genotypes at variable irrigation management.

**Status:** 2014-2015 (Completed and Submitted)

- iii) Identification of mungbean genotypes against waterlogging stress at vegetative growth stage.

**Status:** 2020-2021 (Completed and Submitted)

**Position in the project:** Principle Investigator

**Sponsoring authority:** Sher-e-Bangla Agricultural University Research System (SAURES), Sher-e-Bangla Agricultural University, Dhaka

- iv) Screening of drought and excess moisture tolerant maize genotypes for sustainable productivity in stress prone environment.

**Status:** 2018-2019 (Completed and Submitted)

**Position in the project:** Principle Investigator

**Sponsoring authority:** Ministry of Science and Technology, Government of the people's Republic of Bangladesh

**AREA OF SPECIALIZATION:**

Soil Science : Soil chemistry, Plant physiology, Soil fertility and Soil management.

**RESEARCH EXPERIENCH:**

From 1996 to till now.

Certification :

I solemnly affirm that the above statements are true to the best of my Knowledge and belief.

(Mst. Afrose Jahan)

Professor

Department of Soil Science

Sher-e-Bangla Agricultural University

Aught, 2022

Dhaka, Bangladesh