

## Md. Hafiz Hasan

Upazila Agriculture Officer, Harinakundu, Jhenaidah, Bangladesh  
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Nationality Bangladeshi

What invariably ignites me is to leave a world-changing mark behind, which made me passionate about designing a solution for the world's fresh water. Moreover, I believe that whatever is happening in nature, especially regarding water recycling, could be a good source to work on. I already have designed and applied for two patents: a xylem pipe mimicking the plant's water uptaking mechanisms that will save at least 20% power and a hybrid solar-powered desalination plant following evaporation happening on the sea surface. These two inventions need fine-tuning to make them in use across the world. I believe purposefully and pertinaciously working makes everything possible when added with perseverance and an indefatigable mentality. Sometimes, this immutable attitude could be halted by physical disability, but negligence and castigation often ignite the craving inside. And this sort of dejectedness happened in my life, igniting the driving force to work in a dogged way.

## EDUCATION

- January 2017 – Dec 2018 **Masters in Environment and Sustainability (weighted average marks 73.5%)**  
**Monash University, VIC, Australia**
- January 2007 - June 2008 **MS in Agronomy (CGPA: 3.906 on a scale of 4.00; 9th position among 166 students)**  
**Bangladesh Agricultural University, Mymensingh, Bangladesh**
- Submitted a Dissertation entitled "Agronomic Management Practice for the Improvement of Growth and Yield of Stevia (*Stevia rebaudiana* Bert.)."
- July 2002 - June 2006 **B.Sc. Ag. (Hons.) (CGPA: 3.759 on a scale of 4.00; 6th position among 69 students)**  
**Bangladesh Agricultural University, Mymensingh, Bangladesh**

## WORK EXPERIENCE

- August 2011 to today **Worked as Agriculture Extension Officer, Upazila (sub-district) Agriculture officer, and Senior (Including two years of Assistant Director (in training academy) education leave) Four stations across Bangladesh.**
- Duties and responsibilities:
- Execution of research plots on advanced agricultural technologies, including validation trials.
  - Organizing farmers' training, budgeting for the entire office, and human resource management (conflict management is one of the regular works).
- June 2008 to February 2011 **I have worked on three projects and non-government organizations, and one private bank during this period on a contractual basis. And I was looking for a permanent position.**
- July 2007 to June 2008 **Research Fellow**  
**Department of Agronomy, Bangladesh Agricultural University, Mymensingh, Bangladesh**
- Duties and responsibilities:
- Set up Experiments as per the project's proposal.
  - Collection and analysis of data from different experiments for MS and Ph.D. students.
  - Maintaining workers for other field-related activities.
  - Spending funds allocated and submitting reports accordingly.

## RESEARCH

- Patents**
1. Xylem pipe to uptake water using at least 20% less energy. Submitted on 02 November 2022 to the Department of Patent, Design, and Trademarks, Ministry of Industries, Bangladesh. **Application file no P/BD/2022/000360.**
  2. Hybrid solar-powered desalination through the increased surface area, heat recycling, and entrapment of sunlight are similar to the mechanisms that lead to evaporation from the sea surface. Submitted on 02 November 2022 to the Department of Patent, Design, and Trademarks, Ministry of Industries, Bangladesh. **Application file no P/BD/2022/000361.**

**Publications of Journal Articles** Rana, S., Hasan, M.H., Alam, M.S. and Islam, M.S. (2017). Farmer attitude towards organic vegetable cultivation in Rangunia Upazila, Chittagong, Bangladesh. *Journal of Bioscience and Agriculture Research*, 14(01), 1151-1156.  
Crossref: <https://doi.org/10.18801/jbar.140117.141>

Hasan M.H., A.K.M.S.H.Chowdhury, M.A.R. Sarkar, M.H Kabir & A.R. Khan, July 2009, "Vegetative propagation of stevia (stevia rebaudiana)," *Journal of Agroforestry and Environment*, Vol. 3, no., pp. 33-36.

Hasan M.H., A.K.M.S.H.Chowdhury, M.H Kabir, A.R. Khan & M.S. Hossain, 2009, "Effect of nitrogenous fertilizer and spacing on the vegetative growth of stevia as field crop," *Bangladesh Journal of Environmental Science*, vol. 2, no.1, pp. 40-44.

**Publications (underway)** Hasan, M.H., T. Yasmin, N. Tapper, C. Brondik. "Benchmarking Dhaka City to assess sustainable development ways from a global south context." (Waiting to submit to *The Water Science and Technology Journal*)

Two other articles about the patented designs (xylem pipe to uptake using at least 20% less energy and Hybrid solar-powered desalination plant) are getting ready and hoping to publish soon.

**Book Publication** Transliteration of vocabulary learning book "The Wizard of Oz." Waiting to sign a contract with A. J. Cornell Publications, 18-74 Corporal Kennedy St. Bayside, NY 11360 to get the book published. A sample copy of Chapter 1 is available on my site: [www.mdhafiz.hasan.com](http://www.mdhafiz.hasan.com)

**Grants and awards**

- Received a grant from the Australian High Commission, Bangladesh, for the betterment of physically challenged farmers through Mushroom cultivation.
- Received Australia Awards Scholarship to pursue a Master of Environment and Sustainability
- Received a grant to participate in 3 minutes presentation competition held in Sri Lanka
- Received NSICT Fellowship to conduct research on stevia during my first master's degree

**Standardized Tests** GRE: 314 (Q: 164, V: 150, AWA: 4.0)  
IELTS: OVERALL SCORE: 7.0 (R:7.5 W:6.5 L:6.5 S:7.0)

## TRAINING

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10 May to 18 June 2021 Two-day long training and mentoring program on Patent application filing.  
**World Intellectual Property Organization (WIPO), Switzerland.**

10 May to 18 June 2021 Integrated pest management and food security  
**Wageningen Centre for Development Innovation (WCDDI), The Netherlands**

28 August to 30 October Agriculture Extension Planning and Management  
2016 **Japan International Cooperation Agency (JICA), Tsukuba, Japan**

24 August to 21 December Foundation Training Course of Bangladesh Civil Service  
2014 Bangladesh Public Administration Training Centre, Savar, Dhaka, Bangladesh.

21 January to 5 June 2013 Season-Long Integrated Crop Management  
IFMC Project of the Department of Agricultural Extension funded by the Danish International Cooperation Agency (DANIDA)

## ONLINE COURSES

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**Managing for a Changing Climate**  
South Central Climate Science Centre, Oklahoma University, USA  
**The Climate-Energy Challenge**  
Offered by Harvard University, USA  
**Data Science: R Basics, Data visualization, and Probability (3 courses)**  
Offered by Harvard University, USA

## PERSONAL SKILLS

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|---------------------------------------|---|
| Mother tongue                         | Bengali   |
| Other languages                       |   |
| English                               | IELTS Overall Score: 7.0 (Reading: 7.5, Writing: 6.5, Listening: 6.5, Speaking: 7.0)  |
| Arabic                                | Know how to read and write only.  |
| Japanese                              | I stayed in JICA, Tsukuba, Japan, for two months and did an elementary course.  |
| Hindi                                 | I understand the language and can speak. But not at all of reading and writing.   |
| Communication and presentation skills | <ul style="list-style-type: none"><li>▪ I have lived in Japan for two months and in Australia for two years, and becoming accustomed to a different culture abroad has enriched me with a new dimension of communication skills.</li><li>▪ I also participated in 3 minutes presentation competition in Sri Lanka in January 2020 and was a semi-finalist.</li></ul>  |
| Organizational skills                 | <ul style="list-style-type: none"><li>▪ Currently, I am working as a team leader of a group consisting of 34 extension workers.</li><li>▪ Social Welfare and Networking secretary of Australia Alumni Association, Bangladesh (<a href="https://aaabd.org/executive-committee/">https://aaabd.org/executive-committee/</a>) for two terms in a row.</li><li>▪ Ex-General Secretary of Bangladesh Student Association of Monash University, Australia.</li><li>▪ Ex-Organising Secretary of Kushtia Students' Association, Bangladesh Agricultural University, Mymensingh.</li></ul> |
| Digital skills                        | Data analysis software: R and MStatC, Photoshop, Adobe Premier Pro.   |

## ADDITIONAL INFORMATION

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| Memberships | <ul style="list-style-type: none"><li>▪ Lifetime member of "Kribishibid Institution Bangladesh" (Association of Agriculturists)</li><li>▪ JICA Alumni lifetime member.</li><li>▪ Lifetime member of Australia Alumni Association Bangladesh.</li></ul>   |
| Certificate | <ul style="list-style-type: none"><li>▪ Champion Team Member of Debate Competition of 57th Foundation Training Course (FTC) in Bangladesh Public Administration Centre (BPATC), the apex training institute in Govt. Service Sector in Bangladesh.</li><li>▪ Achieved a certificate of appreciation as Coach of the Runner-up team in Football, active participation in a cultural program, and ICT committee member for outstanding contribution.</li></ul> |
| References  | <p>Md Asgar Ali, Deputy Director, Department of Agricultural Extension, Jhenaidah, Bangladesh. Email: <a href="mailto:ddaejhenidah@gmail.com">ddaejhenidah@gmail.com</a>; <a href="mailto:ddjhenidah@dae.gov.bd">ddjhenidah@dae.gov.bd</a></p> <p>Biplob Kumar Saha, Professor, Department of Agricultural Chemistry, Bangladesh Agricultural University, Mymensingh, Bangladesh. Email: <a href="mailto:bksaha@bau.edu.bd">bksaha@bau.edu.bd</a></p>        |