

Name of Personnel: Dr. Md. Jamal Hussain

Current Address: B-1/D-4, Krishibid Bhawal City, Passport Office Road,
Chandana, Gazipur-1702, Bangladesh

Email: hussainmdjamal@ymail.com

Cell No: +880 1712 045676

Nationality: Bangladeshi

Language Proficiency: Bengali (Native), English (Professional working proficiency)

Birthday: 1st July, 1967.

**Education/Qualifications:**

Sl. No.	Name of the Educational Institute	Date Attended	Name of the Degrees/Qualification
01	Md. Mokon High School (Comilla Board)	1981-1982	Secondary School Certificate (SSC)
02	Sylhet Govt. College (Comilla Board)	1983-1984	Higher Secondary Certificate (HSC)
03	Bangladesh Agricultural University, Mymensingh	1984-1988 (held in 1991)	Bachelor of Science in Agriculture (Hons) {B.Sc. Ag (Hons)}
04	Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur	2002-2004	M.S. in Soil Science
06	Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur	2009-2013	Ph.D. in Soil Science

Professional Certifications:

Sl. No.	Name of the Professional Institute	Date Attended	Name of the Certificate
01	National Agriculture Training Academy (NATA)	2024	Public Procurement Procedure
02	Bangladesh Agricultural Research Council (BARC)	2024	Project Development and Management
03	Bangladesh Agricultural Research Council (BARC)	2021	Use of Fertilizer Recommendation Guide-2018
04	Bangladesh Agricultural Research Council (BARC)	2020	Technical Report Writing and Editing
05	National Agriculture Training Academy (NATA)	2020	Public Financial Management
06	BARI, Agricultural Statistics Division	2019	Scientists Training on Open-Source Software R
07	BARI / NATP-2 / BARC	2019	Production Technologies, Storage and Processing of Tuber Crops
08	National Agriculture Training Academy (NATA)	2018	Modern Office Management
09	BARI	2018	Modern Techniques for Management of Insect and Diseases of Horticultural Crops
10	BARI	2017	Development of High Yielding Varieties and Improved Production Technology of Summer Vegetables
11	BARC / BARI	2017	Good Agricultural Practices (GAP): Standard and Compliance Criteria for Fruits & Vegetables

			Production
12	BARI	2017	Breeding Techniques and Improved Production Technologies of Fruit Crops
13	HRC, BARI	2015	Improved Production Technologies of Citrus Fruits
14	BARI	2015	A seminar on Integrated Nitrogen management on Yield and quality of Broccoli
15	BARD, Comilla	2014	Administrative and Financial Management
16	Graduate Training Institute (GTI)	2014	Research Methodology
17	IDCOL at BARD Comilla	2008	Management and Utilization of Bio-slurry in Agriculture Production
18	BARI	2008	Integrated Crop Management
19	BARI	2007	Improved Technology of Pulse Crops
20	PGRC, BARI	2007	Conservation and Utilization of Plant Genetic Resources
21	BARI	2007	Computer Skill for Data Management, Analysis, Reporting and Use of Internet
22	BARI	2007	Administration & Financial Management for Senior Scientists
23	BARD	2006	Foundation Training Course for NARS Scientists (Batch-13)
24	BTRC central training Institute, Gazipur	2006	Special Light Driving Training
25	BARI	2005	Administration and Financial Management
26	BARI	2004	Integrated Nutrient Management for Fruit and Vegetables Crops
27	BARI, OFRD, SFFP/DANIDA	2000	On-Farm Soil Fertility and Fertilizer Management
28	BARI	2000	Computer Skill and Data Processing
29	BARI	1999	Induction Training
30	BARC, Dhaka	1997	Farming Systems Research and Development Methodology

Foreign Training

Event: Soil Conservation & Soil Fertility Management in Humid & Sub-Humid Areas (Wetland)

Location: Royal Danish Ministry of Foreign Affairs (DANIDA fellowship programme)/ COWI Denmark (Copenhagen)

Duration: 2 Months, 25 Days

Role: DANIDA Fellow / Programme Participant

Details:

- Conducted practical experiments on soil mechanics, moisture retention, and wetland nutrient cycles.
- Completed technical assignments on soil conservation and fertility management models.
- Delivered professional presentations on data-driven solutions for vulnerable environments.
- Collaborated with international experts at COWI on sustainable land management frameworks.

Event: PC User Course

Location: Selandia College, Slagelse, Denmark/COWI

Duration: 2 Months, 25 Days

Role: Trainee

Details:

- Completed intensive training in data management, spreadsheet modeling, and professional software.

- Executed practical assignments to optimize digital workflows, data organization, and reporting.
- Developed proficiency in advanced computing tools for technical data analysis and documentation.
- Collaborated on project simulation challenges and technical presentations.

Employment Record/Experience:

Position: Principal Scientific Officer (PSO)

Organization: Bangladesh Agriculture Research Institute (BARI), Gazipur.

Year: November 1997- June 2026 (Currently on Post Retirement Leave/PRL)

Responsibilities:

- Office management as routine work at Oilseed Research Centre in absence of Director (ORC).
- Design, execute, and manage multi-year scientific research programs in soil fertility, fertilizer management, and horticultural crop production.
- Conduct data collection, analysis, recording, reporting, peer review, and publication of research findings in national and international journals.
- Deliver Training-of-Trainers (TOT) programs for scientists and scientific staff; conduct farmer-level training sessions on improved agronomic technologies.
- Organize Farmer's Field Days to facilitate technology dissemination and knowledge transfer to rural farming communities.
- Monitor and evaluate research programs for quality, relevance, and impact.
- Preparation of Annual Research Report and conduction of Annual research review and program planning workshop
- Responsible to submission and assessment of SER of scientists and other scientific staffs
- Worked as a Station in charge (DDO) from 2005 to 2009 at OFRD, BARI, Sylhet
- Participation in radio talk
- Worked as a consultant scientist in OFTD program, CPP, MWDB, Tangail
- Worked at agricultural Diversification program, LGED, Sunamgonj, Sylhet
- Participation in Annual Botanical conference 2015
- Participate in 5th National Convention and Agricultural Conference, 29-30 September, 2016
- Act as an External Research supervisor of a BSMRAU student (As an inturn)
- Act as Graduate School Representative in the Final Exam (Thesis Defense) of some MS students of BSMRAU, Gazipur

*Besides this I have a working experience of two and a half years (February 26, 1992 to July 05, 1995) as a Program Organizer at Bangladesh Rural Advancement Committee (BRAC) in the field of agricultural activities under RDP

Engaged in Professional Associations and Publication's:

Engaged in Professional Associations:

Sl No.	Type of membership	Professional Associations
01.	Life member (LM-206)	Soil Science Society of Bangladesh
02.	Life member (LM-1132)	Bangladesh Association for the Advancement of Science (BAAS)
03.	Life member (01-88-8047)	Krishibid Institution Bangladesh (KIB)
04.	Life member	Bangladesh Society of Agronomy
05.	Life member	Bangladesh agricultural research Institute scientists association (BARISA)
06.	Associate member	Bangladesh Botanical Society
07.	Associate member	Bangladesh Horticulture Scientists Association

Publications:

Over 29 years of continuous engagement in agricultural research at BARI, with 23+ peer-reviewed publications in national and international journals covering soil fertility, integrated nutrient management, and horticultural crop production.

- Uddin, M.S., Islam, M.U., Datta, D.R., Islam, M.D.N., Hussain, M.J., & Islam, M.M. (2025). Rapeseed-Mustard Crop Productivity Enhancement in Bangladesh. In Productivity Enhancement of Oilseed Crops in SAARC Member States, p. 153.
- Hussain, M.J., Ahmed, R., & Alam, M.S. (2024). USG and Prilled Urea Based Fertilizer Performance: A Comparative Study for Broccoli Production. Bangladesh Journal, 325.
- Quddus, M.A., Siddiky, M.A., Hussain, M.J., Rahman, M.A., Ali, M.R., & Masud, M.A.T. (2021). Magnesium Influences Growth, Yield, Nutrient Uptake, and Fruit Quality of Tomato. International Journal of Vegetable Science, 28(12), 441-464.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.S., & Rahman, M. (2021). Integrated Effect of Inorganic and Organic Nitrogen Sources on Nutrient Uptake and Crop Quality of Broccoli. Agriculture and Natural Resources, 55(1), 71-80.
- Quddus, M.A., Ara, K.A., Siddiky, M.A., Hussain, M.J., & Sharifuzzaman, S.M. (2021). Fertilizer Management of Gypsophila (*Gypsophila paniculata*). Bangladesh Journal of Agricultural Research, 46(1), 23-34.
- Quddus, M.A., Anwar, M.B., Naser, H.M., Siddiky, M.A., Hussain, M.J., Aktar, S., Mondol, A.T.M.A.I., Islam, M.A., & Amin, M.R. (2020). Impact of Zinc, Boron and Molybdenum Addition in Soil on Mungbean Productivity, Nutrient Uptake and Economics. Journal of Agricultural Science, 12(9), 115.
- Nahar, M.S., Naher, N., Alam, M.J., Hussain, M.J., Yasmin, L., Mian, M.Y., & Miller, S.A. (2020). Survey, Morphology and White Mold Disease of Country Bean (*Lablab purpureus* L.) Caused by *Sclerotinia sclerotiorum* in Relation to Soil Physico-Chemical Properties. Crop Protection, 135, 104825.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.M., Islam, M.S., & Naher, L. (2020). Integrated Nitrogen Management in Increasing Yield and Economic Profitability of Broccoli (*Brassica oleracea* var. *italica* L.). Sains Malaysiana, 49(2), 271-281.
- Shahinul, M., Hussain, M.J., Salim, M.M.R., Ahamed, B., & Rahman, M. (2020). Determination of Optimum Rate of Nitrogen, Phosphorus, Potassium and Boron for Leaf and Seed Yield of Lettuce. Bangladesh Journal of Agricultural Research, 45(4), 455-471.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.S., & Rahman, M. (2018). Response of Broccoli to USG and Prilled Urea in Shallow Red-Brown Terrace Soil under Madhupur Tract. Bangladesh Journal of Agricultural Research, 43(4), 557-574.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.S., & Rahman, M. (2018). Effect of Urea Super Granule and Prilled Urea on the Growth and Yield of Broccoli. Bangladesh Journal of Agricultural Research, 43(1), 53-69.
- Ahmed, R., Hussain, M.J., Ahmed, S., Karim, M.R., & Siddiky, M.A. (2017). Effect of N, P and K Fertilizer on the Flower Yield of Chrysanthemum. The Agriculturists, 15(1), 58-67.
- Ahmed, R., Hussain, M.J., Ahmed, S., Karim, M.R., & Siddiky, M.A. (2017). Effect of Nitrogen, Phosphorus and Potassium Fertilizers on Yield and Yield Attributes of Marigold (*Tagetes patula* L.). The Agriculturists, 15(1), 101-109.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.S., & Rahman, M. (2017). Effect of Different Levels of Urea Super Granule and Prilled Urea on the Crop Quality, Nutrient Uptake and Soil Nutrient Status of Broccoli. The Agriculturists, 15(2), 24-39.
- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., Islam, M.S., & Rahman, M. (2016). Effect of Urea Super Granule and Prilled Urea on Yield and Yield Attributes of Broccoli (*Brassica oleracea* var. *italica* L.). The Agriculturists, 14(2), 95-112.
- Hussain, M.J., Rannu, R.P., Razzak, M.A., Ahmed, R., & Sheikh, M.H.R. (2016). Response of Broccoli (*Brassica oleracea* L.) to Different Irrigation Regimes. The Agriculturists, 14(1), 98-106.

- Hussain, M.J., Karim, A.J.M.S., Solaiman, A.R.M., & Haque, M.M. (2012). Effects of Nitrogen and Boron on the Yield and Hollow Stem Disorder of Broccoli (*Brassica oleracea* var. *italica*). *The Agriculturists*, 10(2), 36-45.
- Hussain, M.J., Ali, M.Y., Rahman, M.A., Quayyum, M.A., & Choudury, D.A. (2010). Effect of Urea Super Granule on the Performance of Cabbage in Young Jamuna and Brahmaputra Floodplain Soils of Tangail. *Bangladesh Journal of Agricultural Research*, 35(2), 267-272.
- Hussain, M.J., Ali, M.Y., Rahman, M.M., Quayyum, M.A., & Choudhury, D.A. (2009). Brinjal (*Solanum melongena*) Fruit Yield in Response to Urea Super Granule Application. *The Agriculturists*, 6-11.
- Salim, M.M.R., Khan, A., Sarkar, M.A., Hossain, M.A., & Hussain, M.J. (2008). Growth and Yield of Cauliflowers as Influenced by Polyethylene Mulching. *International Journal of Sustainable Crop Production*, 3(6), 88-90.
- Hussain, M.J., Ulla, M.A., Salim, M.M.R., Rahman, M.M., & Sarker, M.M.R. (2008). Effect of Different Application Time of Ethrel on Off-Season Pineapple Production at Srimongal, Sylhet. *International Journal of Sustainable Crop Production*, 3(6), 68-71.
- Hussain, M.J., Sarker, M.M.R., Sarker, M.H., Ali, M., & Salim, M.M.R. (2008). Effect of Different Levels of Boron on the Yield and Yield Attributes of Mustard in Surma-Kushiara Flood Plain Soil (AEZ 20). *Journal of Soil Nature*, 2(3), 06-09.
- Hussain, M.J., Ali, M.Y., Rahman, M.A., Khan, M.A.H., & Rahman, M.M. (2003). Application of Urea Super Granule (USG) in Vegetable Crops: A Profitable Technology. Bangladesh Agricultural Research Institute and SFFP, Department of Agricultural Extension.

References:

- Dr. A.J.M. Sirajul Karim — Professor, Faculty of Agriculture, International University of Business Agriculture and Technology (IUBAT) [Phone: +8801552601070]
- Dr. Md. Monjurul Kadir — Director General, BARI, Gazipur-1701. [Phone: +8801717054128]

I, Undersigned, certify that to the best of my knowledge and belief, these data correctly describe my qualifications, my experiences, and other relevant information about myself.

Signature:



(Dr. Md. Jamal Hussain)

Cell Phone No: +880 1712 045676

E-mail: hussainmdjamal@ymail.com