

## CURRICULUM VITAE (CV)

<b>POSITION TITLE AND NO.</b>	: HORTICUTURE SPECIALIST
<b>NAME OF EXPERT</b>	: Dr. MD. REZAUL KARIM
<b>DATE OF BIRTH</b>	: 01 December, 1974
<b> COUNTRY OF CITIZENSHIP/ RESIDENCE</b>	: Bangladesh

### EDUCATION:

- ✓ Ph.D., Nara Institute of Sc. & Tech., Japan, 2005-2009
- ✓ M. S. in Horticulture, Bangladesh Agricultural University, 2000-2002
- ✓ B.Sc. in Agriculture, Bangladesh Agricultural University, 1994-2000

### ✓ AREAS OF EXPERTISE:

- ✓ Development of drought-tolerant, nutrient-dense horticultural crops
- ✓ Postharvest Management of Horticultural Crops
- ✓ Genetic engineering and molecular breeding of crop varieties
- ✓ Crop physiology, plant morphogenesis, and stress tolerance mechanisms
- ✓ Sustainable agriculture and rural development with women's empowerment
- ✓ Research project leadership, data analysis, and scientific communication
- ✓ Farmer capacity building and agricultural extension services

### EMPLOYMENT RECORD RELEVANT TO ASSIGNMENT:

Period	Employing organization and your title / position. Contact information for references.	Country	Summary of activities performed relevant to the assignment
2016- Till Date	<b>Employer:</b> Bangladesh Agricultural University <b>Position Held:</b> Professor <b>References:</b> Tel: +88-091-66846 Email: registrar@bau.edu.bd Designation: Registrar	Bangladesh	Responsible for preparing course materials, evaluating students based on classwork, assignments, research, and projects. Delivered lectures on topics such as horticulture, crop production, soil chemistry, and plant genetics and biotechnology. Actively participated in professional conferences to stay updated with the latest agricultural innovations. Motivated and guided students in undertaking practical research and projects in horticulture. Organized agricultural education competitions and programs. Collaborated with staff for the overall progress of students and the institute. Additionally, involved in evaluating PhD and MS theses/dissertations both from abroad and within the university.
2001- 2016	<b>Employer:</b> Bangladesh Agricultural University <b>Position Held:</b> Associate Professor, Assistant Professor and Lecturer <b>References:</b> Tel: +88-091-66846 Email: registrar@bau.edu.bd Designation: Registrar	Bangladesh	Prepared course materials and notes, evaluating students through their classwork, assignments, research, and projects. Participated in professional conferences to stay updated with advancements in agriculture. Delivered lectures on topics such as horticulture, crop production, soil chemistry, plant genetics, and biotechnology. Encouraged and supported students in pursuing practical projects and research in horticulture. Organized agricultural education competitions and programs for students. Collaborated with colleagues to enhance the progress of students and the institute. Also evaluated PhD and

			MS theses/dissertations from both the university and abroad.
2021	<p><b>Employer:</b> Bangladesh Academy for Rural Development (BARD)</p> <p><b>Position Held:</b> Consultant</p> <p><b>References:</b> Telephone: +88-01716-848910 Email: mamunbard@gmail.com Name: Dr. Abdulla Al Mamun Position: Director</p>	Bangladesh	Coordinated with various related organizations, developed survey questionnaires, and designed the methodology for selecting sampling areas. Supervised data enumerators during the survey process, conducted descriptive data analysis, and prepared the draft report.
2011-2013	<p><b>Employer:</b> NARO-Institute of Crop Science, Tsukuba, Japan</p> <p><b>Position Held:</b> Postdoctoral Researcher</p> <p><b>References:</b> Tel: +81-59-268-1331 E-mail: kawata@affrc.go.jp Name: Dr. Motoshige Kawata Designation: Senior Researcher</p>	Japan	Designed and conducted research, including transgenic analysis, data collection, and analysis. Prepared reports and manuscripts for publication while supervising technicians involved in the research process.
2010-2011	<p><b>Employer:</b> University of Minnesota</p> <p><b>Position Held:</b> Visiting Researcher</p> <p><b>References:</b> Tel: +612-625-0271 Email: nixx008@umn.edu Name: Min Ni Designation: Professor</p>	USA	Led the design and execution of research projects, developed research protocols, and conducted transgenic analysis. Managed data collection and analysis, prepared reports, and authored manuscripts for publication. Supervised undergraduate students and laboratory technicians. Presented research findings at international conferences.
2014-2020	<p><b>Employer:</b> Bangladesh Agricultural University Research System</p> <p><b>Position Held:</b> Principal Investigator</p> <p><b>References:</b> Tel: +88091 67417 Email: director.baures@bau.edu.bd Designation: Director</p>	Bangladesh	Designed and conducted research on the yield and nutritional quality of tomatoes and the development of production technology for seedless watermelon. Managed data collection and analysis, prepared reports, and presented research findings at national and international conferences. Authored manuscripts for publication in scientific journals
2018-2019	<p><b>Employer:</b> University Grants Commission (UGC)</p> <p><b>Position Held:</b> Project Director</p> <p><b>References:</b> Tel: +88 0258160258 Email: crop_science.rsp@ugc.gov.bd Name: Research and Publication Division Designation: Director</p>	Bangladesh	Designed and conducted research, collected data, assessed consumer perceptions, analyzed the results, and prepared comprehensive reports.
2014-2020	<p><b>Employer:</b> Ministry of Science and Technology (MoST)</p> <p><b>Position Held:</b> Principal Investigator</p> <p><b>References:</b> Tel: +88029576539 Email: section9@most.gov.bd Designation: Deputy Secretary</p>	Bangladesh	Conducted a survey and selected the target group in Mymensingh District. Designed and executed research, collected data, assessed consumer perceptions, analyzed the findings, and prepared the report.

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**TRAINING RECEIVED:**

- ✓ Postharvest Management of Horticultural Crops, BARC, Dhaka
- ✓ Regional Workshop on Varietal Improvement & Propagation Techniques, BAU
- ✓ Good Agricultural Practices (GAP) in Fruits and Vegetables, BARC
- ✓ Teaching Methods & Techniques, BAU
- ✓ Technical Report Writing & Presentation, BAU
- ✓ PhD Internship: Communication and Culture Program, UC Davis Extension, USA
- ✓ PhD Internship: Communication and Culture Program, UC DAVIS, USA

**MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS AND PUBLICATIONS:**

- ✓ Bangladesh Society for Horticultural Science
- ✓ Japanese Society for Horticultural Science
- ✓ Progressive Agriculturists, Fundamental and Applied Agriculture
- ✓ Krishibid Institution of Bangladesh, Plant Physiology

**LANGUAGE SKILLS** [indicate only languages in which you can work]:

Language	Speaking	Reading	Writing
Bangla	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

**ADEQUACY FOR THE ASSIGNMENT:**

Detailed tasks assigned on consultant's team of experts	Reference to Prior Work/Assignments that Best Illustrates Capability To Handle The Assigned Tasks
	<p><b>Name of the assignment or project:</b> Development of improved production technology and postharvest handling of cut flower</p> <p><b>Year:</b> 2001 to present</p> <p><b>Location:</b> Bangladesh</p> <p><b>Client:</b> Bangladesh Agricultural University, Mymensingh</p> <p><b>Main project features:</b> Facilitate different aspects of cut flower production, postharvest handling, marketing and development of new variety such as:</p> <ul style="list-style-type: none"><li>(i) Taught undergraduate students on cut flower production, fragrant extraction, and postharvest handling of flowers, including cut flowers, both on theoretical and practical levels.</li><li>(ii) Supervising Master of Science (MS) students in the department of Horticulture. In this way, five students completed their MS degree on cut flower production and extension of shelf life under my supervision.</li><li>(iii) One of my PhD students is working on the development of a new gladiolus variety having an extended shelf life.</li><li>(iv) I visit Gadkhali, Jashore every year to train MS students to acquire knowledge on cut flower production, processing, and marketing.</li><li>(v) I provide training on high-value crops, including cut flower production, processing, and marketing, to all classes of people, including rural women.</li></ul> <p><b>Positions held:</b> Lecturer to Professor</p> <p>Activities performed: Delivering lecture, supervising PhD and MS students, landscape provide training upon request from national and international organizations, designing and conducted research, data collection and analysis, report writing, publication of journal articles and so on.</p>
	<p><b>Name of the assignment or project:</b> Research and development of moringa (<i>Moringa oleifera</i>)</p> <p><b>Year:</b> 2021 to 2024</p> <p><b>Location:</b> Bangladesh</p> <p><b>Client:</b> World Vision, Bangladesh</p> <p><b>Main project features:</b> Provided training on seedling raising and cultivation of moringa to World Vision personnel.</p> <p><b>Positions held:</b> Consultant</p> <p>Activities performed: Provided training on seedling raising and cultivation of moringa at Leda, Ukiya, Cox's Bazar to the World Vision personnel. The produced seedling were distributed to Rohingya Camp at Ukiya and Bhasan Char, collection of seed and seedlings, guided to</p>

	construct green house and other related activities as deemed by World Vision.
	<p><b>Name of assignment or project:</b> BARD funded project on “Employment generation of rural women through mushroom cultivation and poultry rearing in Lalmai Hill Areas of Cumilla</p> <p><b>Year:</b> January 2021 – June 2021</p> <p><b>Location:</b> Bangladesh</p> <p><b>Client:</b> Bangladesh Academy for Rural Development (BARD)</p> <p><b>Main project features:</b> Livelihood Improvement of Rural people of Lalmai-Maynamati Hilly Areas through Integrated Agricultural Farming. Objectives of the projects were:</p> <ul style="list-style-type: none"> <li>(i) To assess the socio-economic and demographic information of the mushroom cultivator and poultry rearing in the study area;</li> <li>(ii) To explore the status of employment and income generation of rural women through mushroom production and poultry rearing; and</li> <li>(iii) To identify the challenges and prospects of mushroom cultivation and poultry rearing in the hilly areas of Cumilla region.</li> </ul> <p><b>Positions held:</b> Consultant</p> <p><b>Activities performed:</b> Maintained visits and communication with various related organizations, constructed the survey questionnaire for the study, developed the methodology for selecting sampling areas, supervised the survey conducted by data enumerators, conducted descriptive data analysis, and prepared the draft report.</p>
	<p><b>Name of assignment or project:</b> Phenotypic and molecular characterization of antioxidant rich tomato genotypes for improving elite popular varieties in Bangladesh</p> <p><b>Year:</b> July 2022 – June 2025</p> <p><b>Location:</b> Bangladesh</p> <p><b>Client:</b> Ministry of Education (MoE)</p> <p><b>Main project features:</b> Features of the assignment were as follows:</p> <ul style="list-style-type: none"> <li>(i) Collection of tomato genotypes from different research organizations, traders, farmers and from abroad;</li> <li>(ii) Characterization based on morphological and biochemical properties.</li> </ul> <p><b>Positions held:</b> Postdoctoral Researcher</p> <p><b>Activities performed:</b> Designed and conducted research, transgenic analysis, data collection and analysis, preparation of report, manuscript preparation for publication and supervision of technicians.</p>
	<p><b>Name of assignment or project:</b> Development of herbicide resistant crop varieties including tomato through genetic engineering</p> <p><b>Year:</b> October 2011 – September 2013</p> <p><b>Location:</b> Japan</p> <p><b>Client:</b> NARO-Institute of Crop Science, Tsukuba, Japan</p> <p><b>Main project features:</b> Features of the assignment were as follows:</p> <ul style="list-style-type: none"> <li>(iii) Development of herbicide resistant rice and tomato varieties through gene manipulation;</li> <li>(iv) Characterization of transgenic rice and tomato varieties.</li> </ul> <p><b>Positions held:</b> Postdoctoral Researcher</p> <p><b>Activities performed:</b> Designed and conducted research, transgenic analysis, data collection and analysis, preparation of report, manuscript preparation for publication and supervision of technicians.</p>
	<p><b>Name of assignment or project:</b> Light regulated plant morphogenesis</p> <p><b>Year:</b> October 2010 – March 2011</p> <p><b>Location:</b> USA</p> <p><b>Client:</b> University of Minnesota</p> <p><b>Main project features:</b> The project aimed at evaluating the effects of light quality on growth and development of plant using <i>Arabidopsis</i> as a model system.</p> <p><b>Positions held:</b> Visiting Researcher</p> <p><b>Activities performed:</b> Designed and conducted research, development protocol for research, transgenic analysis, data collection and analysis, preparation of report, manuscript preparation for publication and supervision of undergraduate students and lab technicians. Presentation of research findings at international conferences.</p>
	<p><b>Name of assignment or project:</b> Development of seedless tomato using plant growth regulators.</p> <p><b>Year:</b> July 2018 – June 2019</p> <p><b>Location:</b> Bangladesh</p> <p><b>Client:</b> University Grants Commission (UGC)</p> <p><b>Main project features:</b> Development of seedless tomato for industrial use such as making sauce and juice.</p> <p><b>Positions held:</b> Project Director</p> <p><b>Activities performed:</b> Designed and conducted research, data collection, assessment of consumer's perception, analysis of data, report preparation.</p>

**Name of assignment or project: Development of technologies for high valued off- season vegetable production for food and nutritional security and women income generation of rural women in Bangladesh**

**Year:** July 2014 – June 2020.

**Location:** Bangladesh.

**Client:** Ministry of Science and Technology (MoST)

**Main project features:** Development of improved production technology of summer onion, summer tomato, and year-round sweet pepper in homestead and rooftop gardens for women's income generation of rural women.

**Positions held:** Principal Investigator

**Activities performed:** Conducted the survey and selection of the target group in Mymensingh District. Designed and carried out research, collected data, assessed consumer perceptions, analyzed the data, and prepared the report.

**EXPERT'S CONTACT INFORMATION:**

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