

Curriculum vitae

Professor Dr. Md. Jahedur Rahman



PERSONAL INFORMATION



Professor Dr. Md. Jahedur Rahman

(Grade – 2)

Department of Horticulture

Faculty of Agriculture

Sher-e-Bangla Agricultural University

Sher-e-Bangla Nagar, Dhaka – 1207, Bangladesh

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Home Address: 903, Chameli Bhaban, Sher-e-Bangla Agricultural University Campus, Sher-e-Bangla Nagar, Dhaka – 1207, Bangladesh

Permanent Address: Village: Jangram, Post-Office: Shihali, Upa Zilla: Shibgonj, District: Bogura

Sex: Male **Date of birth:** 24 November 1974

Nationality: Bangladeshi,

Marital Status: Married to Mst. Rumana Akter

Orchid: <https://orcid.org/0000-0002-9628-5877>

KEY RESEARCH SPECILISATION

- ◆ Hydroponics / soilless culture for the tropics
- ◆ CSA (Climate-smart agriculture) under changing climate
- ◆ Urban hydroponic culture
- ◆ Safe food production technology through hydroponics
- ◆ CEA (Controlled Environment Agriculture)
- ◆ Hydroponic Plant Factory
- ◆ Hydroponic solution developer for vegetable and fruits
- ◆ Vegetable Farming system in Bangladesh
- ◆ Fruit production and orchard management
- ◆ Greenhouse hydroponic vegetables and fruit production
- ◆ Greenhouse capsicum, tomato, lettuce, strawberry, celery, cucumber, dragon fruit, brinjal, etc hydroponic production

ACADEMIC DEGREES

2009-2013 Doctor of Philosophy (Ph.D.)
Graduate School of Agriculture and Engineering
University of Miyazaki
Miyazaki, JAPAN

Specialized areas in PhD research:

- ◆ Hydroponic vegetable production for the tropics
- ◆ Hydroponic solution preparation
- ◆ Hydroponic growing media preparation for vegetable and fruits
- ◆ Hydroponic Plant Factory
- ◆ Greenhouse agriculture in the urban and rural areas
- ◆ CSA through hydroponics

Result: Distinction

Dissertation Title: || Development of Hydroponic Techniques of Sweet Pepper for the Tropics ||

2000-2002 Master of Science in Horticulture (MS)
Bangabandhu Sheikh Mujibur Rahman Agricultural University
(Former-IPSA), Gazipur, BANGLADESH

- ◆ High value vegetable production
- ◆ Physiology of vegetable and fruit
- ◆ Postharvest technology of vegetable
- ◆ Fruit production
- ◆ Quality control of vegetable and fruits
- ◆ Methods of statistics
- ◆ MS thesis (Research and writing), etc

Result: **CGPA - 4.0 out of 4.0**

Thesis Title: || Performance, Nutritive Value and Postharvest Loss of Seven Genotypes in Sweet Pepper ||

1993-1996
(Exam 2000) Bachelor Science in Agriculture (B. Sc. Ag.)
Bangladesh Agricultural University
Mymensingh, BANGLADESH

(1) Agronomy, (2) Biochemistry, (3) Horticulture, (4) Soil Science, (5) Plant Pathology, (6) Plant Breeding, (7) Entomology, (8) Crop Botany, (9) Agroforestry, (10) Farm Mechanics, (11) Agricultural

Chemistry, (12) Statistics, (13) Rural Sociology, (14) Animal Husbandry, etc.

Result: **First Class First** (First position in merit)

1990-1992

Higher Secondary Certificate (HSC)
Government Azizul Hoque College
Bogra, BANGLADESH

(1) Bangla, (2) English, (3) Mathematics, (4) Physics, (5) Chemistry, (6) Biology

Result: First division

1988-1990

Secondary School Certificate (SSC)
Palikanda Ashrafpur High School
Shibgonj, Bogra, BANGLADESH

(1) Bangla, (2) English, (3) General Mathematics, (4) Physics, (5) Chemistry, (6) Biology, (7) Higher Mathematics, (8) Religion

Result: First division

AWARDS

1. Vice-Chancellor Award (Obtaining 1st position in B.Sc. Ag. degree)
Bangladesh Agricultural University, BANGLADESH, 2003
2. Bangladesh National Science, Information and Communication
Technology Fellowship-2003
The government of Bangladesh; January to December 2003
3. Education Board Scholarship
Rajshahi Education Board, Government of Bangladesh, January
1988 to December 1990
4. Vice-Chancellor Award for obtaining GPA 4.0 out of 4.0 in MS degree
Bangabandhu Sheikh Mujibur Rahman Agricultural University,
Bangladesh, 2010
5. Technical Training Program Scholarship
Miyazaki Prefecture Government, JAPAN, March 2006-February
2007
7. Japanese Government (MEXT: Monbukagakusho) Scholarship
Government of Japan, October 2009 to March 2013
8. Oral and Poster Award Silver for hydroponic research in PhD level
28th International Horticultural Congress (IHC 2010), Lisbon,
Portugal, 2010.
◆ This congress held every four years interval. The committee of
28th IHC 2010 selected me for award on the basis of my

research among ≈5000 participants from ≈150 countries. The award giving ceremony was celebrated at the congress dinner party.

9. Best Presenter Award for hydroponic research at PhD level
Japanese Society of Agricultural, Biological and Environmental Engineers and Scientists, Kurume, Fukuoka, Japan, 2011.

WORK EXPERIENCE

2024 - to Date	Provost Bijoy '24 Hall (Former name: Sheikh Lutfor Rahman Hall) Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh
2020 - to 2022	Chairman Department of Horticulture Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh
2016 - to date	Professor Department of Horticulture Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh
2012 - 2016	Associate Professor Department of Horticulture Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh
2010 - 2013	Teaching Assistant University of Miyazaki JAPAN
2010 - 2013	Research Assistant University of Miyazaki JAPAN
2006 - 2012	Assistant Professor Department of Horticulture Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh
2006 - 2007	Assistant Provost Siraj-Ud-Doula Hall Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh

2003 - 2005

Lecturer

Department of Horticulture
Sher-e-Bangla Agricultural University
Dhaka-1207, Bangladesh

RESEARCH AREAS

- Hydroponics/soilless vegetable production in tropical areas
- Development of low-cost hydroponics/soilless system for Bangladesh
- Hydroponic nutrient solution formulation
- Hydroponic solution developer for vegetable and fruits
- Greenhouse hydroponic vegetables and fruit production
- Greenhouse capsicum, tomato, lettuce, strawberry, celery, cucumber, dragon fruit, brinjal, etc hydroponic production
- CSA (Climate-smart agriculture) under changing climate
- Urban hydroponic culture
- Safe food production technology through hydroponics
- CEA (Controlled Environment Agriculture)
- Hydroponic Plant Factory

SPECIALIZED SKILLED

- Well trained to construct hydroponics structure
- Well trained to prepare hydroponic nutrient solution
- Well trained to prepare fully automated controlled hydroponic system
- Well trained to produce vegetable and fruits under CEA
- Greenhouse preparation
- Well trained to operate HPLC, Photosynthesis measurement unit, digester and sophisticated equipment in agriculture
- Well trained to plant factory through hydroponics
- Basic and advanced lab activities

PRESENT COURSES

(Department of Horticulture, Faculty of Agriculture
Sher-e-Bangla Agricultural University, Dhaka)

Undergraduate course:

HORT 201. Vegetable Production (Theory), Level – 2, Semester – I
HORT 202. Vegetable Production (Practical), Level – 2, Semester – I
HORT 453. Fruit Production and Orchard Management (Theory), Level – 4, Semester – II
HORT 454. Fruit Production and Orchard Management (Practical), Level – 4, Semester – II

HORT 1105, 1106 Principles of Horticultural Crops Management (Theory and Practical); Faculty of Agribusiness Management, Sher-e-Bangla Agricultural University, Dhaka

Master course:

HORT 514. Hydroponics and Organic Farming
HORT 513. Growth Regulators of Horticulture
HORT 506. Research Methodology (2006 to 2009)
HORT 505. Seed Technology of Horticultural crops

PhD course:

HORT 601. Landscape and Ornamental Horticulture

COURSE TAKEN IN FOREIGN UNIVERSITY

Undergraduate:

2010 - 2012: Hydroponic Vegetable Production
University of Miyazaki, Japan

2010 - 2012: Protected Vegetable Production
University of Miyazaki, Japan

Master course:

2010 - 2012: Advanced Hydroponic Vegetable Production System
University of Miyazaki, Japan

2012: Hydroponics for the Tropics
University of Miyazaki, Japan

2011: Research Methodology and Agricultural Statistics
University of Miyazaki, Japan

2012: World Scenario of Agriculture
University of Miyazaki, Japan

MASTER COURSE STUDENTS RESEARCH

Past and Current Researches

- 2013 Hydroponics lettuce, Sher-e-Bangla Agricultural University, Dhaka
- 2013 Hydroponics tomato, Sher-e-Bangla Agricultural University, Dhaka
- 2013 Hydroponics sweet pepper/capsicum, Sher-e-Bangla Agricultural University, Dhaka
- 2013 Lighting in hydroponics, Sher-e-Bangla Agricultural University, Dhaka
- 2014 Growing substrates for sweet pepper, Sher-e-Bangla Agricultural University, Dhaka
- 2014 Growing substrates for lettuce, Sher-e-Bangla Agricultural University, Dhaka
- 2015 Floating hydroponics for lettuce, Sher-e-Bangla Agricultural University, Dhaka
- 2015 Floating hydroponics for Chinese cabbage, Sher-e-Bangla Agricultural University, Dhaka
- 2016 Hot pepper open field cultivation, Sher-e-Bangla Agricultural University, Dhaka
- 2016 Solution application timing in hydroponics for sweet pepper, Sher-e-Bangla Agricultural University, Dhaka
- 2016 Solution application timing in hydroponics for lettuce, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Solution application timing in hydroponics for sweet pepper, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Solution application timing in hydroponics for lettuce, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Hydroponics for strawberry, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Hydroponics for cherry tomato, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Hydroponics for cucumber, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Hydroponics for bitter gourd, Sher-e-Bangla Agricultural University, Dhaka
- 2017 Hydroponics for groundnut, Sher-e-Bangla Agricultural University, Dhaka
- 2018 Hydroponic brinjal (Summer) Sher-e-Bangla Agricultural University, Dhaka
- 2018 Hydroponic cucumber (Summer) Sher-e-Bangla Agricultural University, Dhaka
- 2018 Hydroponic water melon (Summer) Sher-e-Bangla Agricultural University, Dhaka
- 2018 Hydroponic chili (Summer) Sher-e-Bangla Agricultural University, Dhaka

- 2018 Hydroponic coriander (Summer) Sher-e-Bangla Agricultural University, Dhaka
- 2018 Hydroponic capsicum (Ratoon, Summer) Sher-e-Bangla Agricultural University, Dhaka
- 2019 Hydroponic cucumber (Winter) Sher-e-Bangla Agricultural University, Dhaka (Rajim, MS)
- 2019 Hydroponic lettuce (Winter) Sher-e-Bangla Agricultural University, Dhaka (Raihan, MS)
- 2019 Hydroponic capsicum (Winter) Sher-e-Bangla Agricultural University, Dhaka (Shamoli, MS)
- 2019 Hydroponic capsicum (Winter) Sher-e-Bangla Agricultural University, Dhaka (Sanchita, MS)
- 2019 Hydroponic Cherry tomato (Winter) Sher-e-Bangla Agricultural University, Dhaka (Mostofa, MS)
- 2019 Hydroponic water melon (Winter) Sher-e-Bangla Agricultural University, Dhaka (Farzana, PhD)
- 2020 Hydroponic starwberry (Winter) Sher-e-Bangla Agricultural University, Dhaka (Chadni, MS)
- 2020 Hydroponic celery (Winter) Sher-e-Bangla Agricultural University, Dhaka
- 2020 Hydroponic tomato (Winter) Sher-e-Bangla Agricultural University, Dhaka
- 2021 Hydroponic tomato (summer) Sher-e-Bangla Agricultural University, Dhaka (Tabasum, MS)
- 2021 Hydroponic cucumber (summer) Sher-e-Bangla Agricultural University, Dhaka (Irish, MS)
- 2022 – 2023: 8 students have been awarded degree

Past Researches

- 2006 Tomato yield and quality, Sher-e-Bangla Agricultural University, Dhaka
- 2006 NPK effects on onion, Sher-e-Bangla Agricultural University, Dhaka
- 2007 Quality of garlic as influenced by organic manures, Sher-e-Bangla Agricultural University, Dhaka
- 2007 Yield and quality of turnip, Sher-e-Bangla Agricultural University, Dhaka
- 2008 Yield and quality of tomato, Sher-e-Bangla Agricultural University, Dhaka
- 2009 Spacing and harvesting time of cabbage, Sher-e-Bangla Agricultural University, Dhaka

2010-2023: Many researches on hydroponics

REFEREE/REVIEWER

- (1) Journal of Food, Agriculture and Environment, Finland
- (2) E3 Journal of Agricultural Management, Finland
- (3) Journal of Agricultural Sciences, Canada
- (4) Journal of Food and Agriculture, Willey-Black, etc.
- (5) Universal Journal of Plant Science, Universal Journal of Agricultural Research, Horizon Research Publishing, USA (HRPUB)
- (6) Biological Sciences

EDITOR AND SCIENTIFIC ASSOCIATION ACTIVITIES

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|-------------|---|
| 2015 & 2016 | Editor: Bangladesh Horticulture, An official journal of Bangladesh Society for Horticultural Sciences |
| 2017 & 2018 | Editor: Bangladesh Horticulture, An official journal of Bangladesh Society for Horticultural Sciences |
| 2015 & 2016 | Publication Secretary: Bangladesh Society for Horticultural Sciences |
| 2017 & 2018 | Publication Secretary: Bangladesh Society for Horticultural Sciences |

TRAINING PARTICIPATION

- 17-21 Dec. 2013 Curriculum Development and Teaching-Learning Assessment
Coordinated by “CP 2502: Improvement of Teaching-Learning Quality of Undergraduate and Postgraduate Studies of Faculty of Agriculture” (Under HEQUEP: Higher Education Quality and Enhancement Project), Sher-e-Bangla Agricultural University, Dhaka, Bangladesh and University Grants Commission, BANGLADESH.
- 1 Oct. 2009 - 31 Mar. 2010 Protected Cultivation of Paprika
Coordinated by Lab. of Advanced Horticulture, Graduate School of Agriculture, University of Miyazaki (Under MEXT Scholarship), Miyazaki, JAPAN.

CONFERENCE AND WORKSHOP ATTENDED

- 20 July 2023 Workshop on the Findings of ‘**Effect of selenium on growth, yield and quality on strawberry fruits in hydroponic system**’. SAURES, Sher-e-Bangla Agricultural University, Dhaka: Presenter
Venue – 4th Floor Seminar Room, Administrative Building, Sher-e-Bangla Agricultural University, Dhaka

- 10 March. 2022 Workshop on the Findings of **‘Updating hydroponic culture of tomato and upscaling of hydroponic technology developed during the earlier studies with small scale public private partnership’**. SAURES, Sher-e-Bangla Agricultural University, Dhaka: Presenter
Venue – 4th Floor Seminar Room, Administrative Building, Sher-e-Bangla Agricultural University, Dhaka
- 18 February. 2021 Workshop on the Findings of **‘Development of Sustainable Hydroponic Techniques of Capsicum under Changing Climate in Bangladesh’**. Planning Division, Ministry of Planning, Institutional Project (2018–2021): Presenter
Venue – Seminar Room, Ministry of Planning, Sher-e-Bangla Nagar, Dhaka 1207
- 25 March. 2019 Workshop on the Findings of 2nd Phase Projects (Jan/2015–Nov/2018) of the BAS-USDA Endowment Program: Presenter
Venue – Seminar Room, Bangladesh Academy of Sciences, National Museum of Science and Technology Bhaban, Agargaon, Dhaka
- 27 March. 2018 Seminar on hydroponics (Sustainable hydroponic technologies in Bangladesh), Presenter
Coordinated by Principal Investigator, BAS-USDA PALS SAU CR 08, Sher-e-Bangla Agricultural University, Dhaka 1207, Bangladesh.
Venue – Conference Room (3rd floor), Sher-e-Bangla Agricultural University, Dhaka 1207, BANGLADESH
- 5 March. 2016 National Convention on strengthening simulation approaches for the understanding, projecting and managing climate risks in stress prone environments across the central and eastern Indo-Gangetic Basin
Coordinated by Director (Computer & GIS) Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka 1215, Bangladesh.
Venue - BARC Conference Room 1, Farmgate, Dhaka 1215, BANGLADESH
- 5 February. 2015 National Convention Workshop on strengthening simulation approaches for the understanding, projecting and managing climate risks in stress prone environments across the central and eastern Indo-Gangetic Basin
Coordinated by Director (Computer & GIS) Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka 1215, Bangladesh.

Venue - BARC Conference Room 1, Farmgate, Dhaka 1215,
BANGLADESH

25 March. 2014 Workshop on strengthening simulation approaches for the understanding, projecting and managing climate risks in stress prone environments across the central and eastern Indo-Gangetic Basin

Coordinated by Director (Computer & GIS) Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka 1215, Bangladesh.

Venue - BARC Conference Room 1, Farmgate, Dhaka 1215,
BANGLADESH

23 Nov. 2013 Workshop on Prioritizing Intervention for Climate Smart Agriculture in Bangladesh

Coordinated by Consultative Group on International Agricultural Research (CGIAR), Climate Change, Agriculture and Food Security (CCAFS) and funded by International Water Management Institute (IWMI)

Venue - Red Hall, Spectra Convention Centre, House # 19, Road # 07, Gulshan-1, Dhaka 1212, BANGLADESH

8-11 Sep 2013 Conference on the 51st anniversary memorial meeting
Organized by Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists (**H. Afzali**, Rahman, M.J., and Inden, H. Water management of tomato for quality fruit, Abstract book, PP. 15-17, Oral presentation)

Venue - TOKYO, JAPAN

1-2 June 2013 National Workshop on Ten Past Years Research Activities of Horticultural Crop (Paper Presenter)
Organized by Bangladesh Agricultural Research Council

Venue - BARC, Dhaka 1215, BANGLADESH

4-7 Sep 2012 Conference on the 50th anniversary memorial meeting
Organized by Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists (**Rahman, M.J.**, Inden, H. and Kirimura, M. Leaf gas exchange responses to nutrient solution application timings in sweet pepper, Abstract book, PP. 156-157, Oral presentation.)

Venue - TOKYO, JAPAN

8-11 Nov 2011 Conference on the 49th anniversary memorial meeting
Organized by Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists (**Rahman, M.J.** and

Inden, H. Antioxidants compounds of fruits as affected by nigari and fruit age of sweet pepper, Journal of Agricultural Meteorology, Ser. II, No. 20, PP. 10-11, Oral presentation).

Venue - Fukuoka, JAPAN

10-13 Nov 2010 Seminar in Annual meeting

Organized by Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists (**Rahman, M.J.** and Inden, H. Influence of nutrient solutions on yield and yield contributing characters under high temperature stress in sweet pepper, Kyushu Journal of Agricultural Meteorology, Ser. II, No. 19, PP.16-19, Oral Presentation).

Venue - Oita, JAPAN

22-27 Aug 2010 International Horticultural Congress (IHC 2010)

Organized by International Society of Horticultural Science (**Rahman, M.J.**, Inden, H., and Hossain, M.M. Capsaicin contents under high temperature stress in sweet pepper, Book of Abstracts, Vol. II, P. 597, Oral and poster presentation).

Venue – Congress Centre, Lisbon, PORTUGAL

PERSONAL SKILLS

Mother tongue Bengali

Other languages English, Japanese, Arabic, Hindi, etc.

Computer skills - Operating system (Windows 8, Windows 10, Windows Vista)

- Editing software (Adobe Photoshop CS 3 and upper, Adobe illustrator, and other)
- MS office (MS Word, MS Excel, MS Power Point, MS outlook, MS Publisher, etc.)
- Statistical software (MSTAT-C, SPSS, SAS, MINITAB, Endnote, etc.

Communication skill - Good communication skill with the team leader or with co-workers

- System thinking and application of PRA approaches
- Sound capability of adhering to give any given responsibility

Organizational management skill – Good leadership and organizing ability

- Good leadership to manage students
- Good ability to conduct class room and outdoor teaching, etc.

MAJOR PUBLICATIONS

Peer Reviewed Journals: (No. of Publications - 79)

List of major publications:

2024

1. Chandni, C. S., Raihan, A, **Md. Jahedur Rahman**, S Yasmin and M S Ali (2024). Effect of Selenium on growth and yield of strawberry, Heylion. Volume 10 (2024), under press.
2. Raihan, A, **Md. Jahedur Rahman**, C S Chandni, S Yasmin and M S Ali (2024). Effect of nutrient solution and variety on growth and yield of Hydroponic Lettuce. Turkish Journal of Agricultural Science. (Under press).

2023

3. Raihan, A, **Md. Jahedur Rahman**, C S Chandni, S Yasmin and M S Ali (2023) Nitrate Control and Quality in Hydroponic Lettuce by Using Cow Dung Extract and Nutrient Solution, Volume 96(2023). <https://doi.org/10.5073/JABFQ.2023.096.011>
4. Hossen, MA; Islam MN; **Rahman MJ**; Uddin MM; Hossain HMMT and Akter S. 2023. Effect of plant spacing and mulching on growth, yield and quality of squash. SAARC J. Agric., 21(2):251-261.
5. Md. Jahedur Rahman, Chand Sultana Chandni, Md. Shahajahan Ali, Abu Raihan, M Mokbul Hossain (2023) Effect of Different Nutrient Solutions on Growth, Yield, and Quality of Hydroponic Capsicum Varieties. European Journal of Applied Sciences – Vol. 11, No. 3, Publication Date: June 25, 2023: 503-521. DOI:10.14738/aivp.113.13493

2022

6. Yasmin, S., Rahman, M. J., Raihan, A., Chandni, C. S., Ali, M. S., Ali, M. M., Hossain, M. M., and Sabbir, M. (2023). Effect of Different Strength of Nutrient Solution on Growth and Yield of Rock Melon in Bangladesh. European Journal of Applied Sciences, 11(2): 509-520. DOI:10.14738/aivp.112.13506

2021:

7. Ali, S., **Rahman, MJ.**, Islam, N., Ali, R., Hossain, M., Ali, M., Ahmed, S., Sultana, C. (2021). Effect of Nutrient Solution on Growth and Yield of Cherry Tomato Varieties in Soilless Culture. International Journal of Research - GRANTHAALAYAH, 9(10), 235-251. doi: 10.29121/granthaalayah.v9.i10.2021.4244
8. Sarkar M. D., **M. J. Rahman**, J. Uddain, M. Quamruzzaman, M. O. Kalam Azad, M. H. Rahman, M. J. Islam, M. S. Rahman, K. Choi and M. T. Naznin. 2021.

Estimation of Yield, Photosynthetic Rate, Biochemical, and Nutritional Content of Red Leaf Lettuce (*Lactuca sativa* L.) Grown in Organic Substrates. *Plants* 2021, 10, 1220. <https://doi.org/10.3390/plants10061220>

2020:

9. **Rahman, M. J.**, and M. S. Ali. 2020. Use of industries byproduct as an alternative liquid fertilizer in soilless culture and its effect on sweet pepper. *International Journal of Research -GRANTHAALAYAH*, 8(2), 218-227. <https://doi.org/10.29121/granthaalayah.v8.i2.2020.210>
10. **Rahman, M. J.**, M. S. Ali, F. Islam, M. Z. Zakia. 2020. Physicochemical properties of different organic substrate mixtures and their effects on growth and yield of sweet pepper (*Capsicum annuum* L.) cultivars. *SCIREA J. Biol.*, 5(1): 1-19. <http://www.scirea.org/journal/Biology>.
11. Ahmed, F., M. J. Rahman, M. N. Islam, M. J. Ullah, N. C. Sarker. 2020. Effect of Substrate Sterilization and Spawning Method on the Yield and Yield Attributes of Milky White Mushroom (*Calocybe indica*), *Universal J. Plant Sci.* 8(2): 17-21, <http://www.hrpub.org> DOI: 10.13189/ujps.2020.080201
12. **Rahman, M. J.**, M. R. A. Chawdhery, P. Begum, M. Quamruzzaman, M. Z. Zakia and A. Raihan. 2019. Growth and Yield of Hydroponic Lettuce as Influenced by Different Growing Substrates. *Azarian J. Agric.* 6(1):1-6 <http://dx.doi.org/10.29252/azarinj.001>

2019:

13. Sarkar, M.D., M. M. Rahaman, **M. J. Rahman**, J. Uddain, M. Quamruzzaman and R.N. Rojoni and S. Subramaniam. 2019. Metal accumulation behavior of the weed species growing under soil Cd stress. *Pak. J. Bot.* 51(4):1209-1214. DOI: [http://dx.doi.org/10.30848/PJB2019-4\(12\)](http://dx.doi.org/10.30848/PJB2019-4(12)) [IF: 0.69]

2018:

14. **Rahman, M.J.**, M. Quamruzzaman, J. Uddain. M.D. Sarkar, M.Z. Islam, M.Z. Zakia, S. Subramaniam. 2018. Photosynthetic response and antioxidant content in bitter melon as influenced by organic substrates and nutrient solution. *HortScience*.53(9): 1314-1318. DOI: 10.21273/HORTSCI13226-18 [IF:0.848]
15. Quamruzzaman, M., **M.J. Rahman**, M.D. Sarkar, J. Uddain and S. Subramaniam. 2018. Leaf gas exchange, reproductive development, physiological and nutritional changes of peanut as influenced by boron. *J. Plant Interact.*, 13: 306-314. DOI: 10.1080/17429145.2018.1475021 [IF:1.628]
16. Quamruzzaman, M., M.J. Ullah, M. F. Karim, N. Islam, **M.J. Rahman** and M.D. Sarkar, 2018. Reproductive development of two groundnut cultivars as

influenced by boron and light. *Info. Process. Agric.* 5: 289–293. DOI: 10.1016/j.inpa.2017.12.004

17. Sarkar, M.D., M. Moniruzzaman, M.S. Alam, **M.J. Rahman**, M. Quamruzzaman and Rojoni, R. N. 2018. Growth, sex expression and nutrient composition of cucumber as influenced by maleic hydrazide. *Pak. J. Bot.* DOI:10.30848/PJB2019-1(9) [IF:0.69]

2017:

18. **Rahman, M. J.**, P. Khatun, M. Quamruzzaman, M. R. A. Chawdhery, M. Z. Zakia¹, A. Raihan¹, Md. Dulal Sarkar¹, Md. Mokshed Ali³ and Sujat Ahmed. 2017. Growth and yield of different lettuce varieties grown in the hydroponic system in Bangladesh. *J. Bangladesh Horticulture*, 3(2), Series 2: 23-29, December, 2017.
19. **Rahman, M. J.**, H. Inden, M. Quamruzzaman, M. R. A. Chawdhery, S. Ahmed, and M. M. Ali. 2017. Use of Salt Industries Byproduct as an Alternative Liquid Fertilizer in Floating Hydroponic Lettuce in Bangladesh. *International Journal of Agricultural Science and Research (IJASR)*, 7(1): 165-172, February 2017.
20. **Rahman, M. J.**, M. Quamruzzaman, P. Begum, M. N. H. Sani, M. R. A. Chawdhery. 2017. Physical and chemical properties of different substrate mixtures and their effects on growth and yield of lettuce. *Bangladesh Horticulture*, 3(1), Series 2: 39-46, June, 2017.
21. **Rahman, M.J.**, H. Inden, M. Quamruzzaman, M.R.A. Chawdhery, S. Ahmed and M.M. Ali, 2017. Use of salt industries byproduct as an alternative liquid fertilizer in floating hydroponic lettuce in Bangladesh. *Int. J. Agric. Sci. Res.*, 7: 165-172.
22. **Rahman, M.J.**, M. Quamruzzaman, M.M. Ali, S. Ahmed, M.R.A. Chawdhery, M.D. Sarkar. 2017. The effects of irrigation timing on growth, yield, and physiological traits of hydroponic lettuce. *Azarian J. Agric.*, 4: 193-199.
23. **Rahman, M.J.**, M. Quamruzzaman, P. Begum, M. N. H. Sani, M. R. A. Chawdhery, S. Ahmed and M. M. Ali, 2017. Physical and chemical properties of different substrate mixtures and their effects on growth and yield of lettuce. *Bangladesh Hort.*, 3:39-46.
24. Quamruzzaman, M., M. J. Ullah, M. F. Karim, N. Islam, **M. J. Rahman**, M. D. Sarkar, 2017. Physiological growth and seed yield of two groundnut varieties as influenced by light and boron. *Not. Sci. Biol.*, 9: 280-286. DOI: 10.15835/nsb9210088
25. Quamruzzaman, M., M. J. Ullah, M. F. Karim, N. Islam, **M. J. Rahman** and M. D. Sarkar. 2017. Physiological Growth and Yield of Two Groundnut Varieties as Influenced by Light and Boron. *Not Sci Biol.* 9(2):280-286. DOI: 10.15835/nsb9210088
26. Quamruzzaman, M., **M.J. Rahman** and M.D. Sarkar, 2017. Leaf gas exchange, physiological growth, yield and biochemical properties of groundnut as

influenced by boron in soilless culture. *J. Plant Interact.*, 12: 488-492. DOI: 10.1080/17429145.2017.1397206 [IF:1.628]

27. Sharmin, S., **M.J. Rahman** and M.R.A. Chawdhery. 2017. Effects of planting time and spacing on growth and yield of garlic. *Bangladesh Horticulture*, 3(1), Series 2: 75-79, June, 2017.

2016:

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 61. Ali, M. F. and **Rahman, M. J.** Consumer acceptance and market test of fish sausage and fish ball prepared from by-catch and under-utilized fisheries organisms. International Journal of Sustainable Agricultural Technology, Vol. 1, No. 5, PP. 31-39, November, 2005.
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(*Vigna radiata* (L.) Wilczek) lines. Journal of Science Foundation, Vol. 2, No. 2, PP. 71-76, December, 2004.

Conference publications (International):

65. **Rahman, M.J.**, Inden, H. and Kirimura, M. Leaf gas exchange responses to nutrient solution application timings in sweet pepper. Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists. The 50th anniversary memorial meeting 2012 TOKYO, JAPAN, Abstract book, PP. 156-157, 4-7 September 2012 (Oral presentation.).
66. **Rahman, M.J.** and Inden, H. Antioxidants compounds of fruits as affected by nigari and fruit age of sweet pepper (*Capsicum annuum* L.). Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists. Annual meeting in Kurume, Fukuoka, Japan, Kyushu Journal of Agricultural Meteorology, Ser. II, No. 20, PP. 8-11, November 2011(Oral presentation).
67. **Rahman, M.J.** and Inden, H. 2010. Influence of nutrient solutions on yield and yield contributing characters under high temperature stress in sweet pepper (*Capsicum annuum* L.). Japanese Society for Agricultural, Biological and Environmental Engineers and Scientists. Annual meeting in Oita, Japan, Kyushu Journal of Agricultural Meteorology, Ser. II, No. 19, PP.16-19. November 2010 (Oral presentation).
68. **Rahman, M.J.**, Inden, H., and Hossain, M.M. 2010. Capsaicin contents under high temperature stress in sweet pepper (*Capsicum annuum* L.). International Horticultural Congress, Lisbon, Portugal, Book of Abstracts, Vol. II, P. 597. 22-27 August 2010 (Oral and poster presentation).

MASTER STUDENTS' RESEARCH AS SUPERVISOR

1. Rebeka parvin. 2019-2020. Broccoli cultivation. (On going)
2. Tabassum. 2019-2020. Tomato culture in grow bag system. (On going)
3. Irish Chakma. 2019-2020. Marma cultivation in hydroponic system. (On going)
4. Chand Sultana. 2019-2020. Hydroponic strawberry cultivation. (On going)
5. Md. Abdul Baten. 2018-19. Broccoli cultivation. (On going)
6. Md. Bayzed. 2018-2019. Cauliflower micronutrient. (On going)
7. Adbul wazed. 2018-2019. Broccoli cultivation. (On going)
8. Sabina Yesmin. 2018-2019. Rock melon culture in hydroponic system as influenced by different growing media and nutrient solution. (On going)
9. Ferzana Islam. 2018-2019. Water melon culture in hydroponic system under different growing media (on going).
10. Abu Raihan. 2018. Lettuce hydroponic culture as influenced by EC and cowdung sludge in nutrient solution in DFT system.

11. Md. Mostafizar Rahman. 2018. Hydroponic cherry tomato as influenced by EC and growing media in aggregate system.
12. Md. Razim Hossain. 2018. Hydroponic cucumber culture in different hgrowng media.
13. Susmita Roy. 2018. Capsicum hydroponic culture as influenced by EC and cowdung sludge in nutrient solution in aggregate system. system.
14. Sabina yesmin. 2017. Growth and yield of broccoli as influenced by B and K.
15. Shayamoli Akter. 2017. Hydroponic Capsicum as influenced by nutrient solution.
16. Zannat Zakia. 2016. Hydroponic Strawberry as influenced by growing media.
17. Pahida Khatun. January-June/2017. Effect of growing media and variety on growth and yield of lettuce in soilless culture. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
18. Md. Mazharul Islam. July-December/2015. Growth, yield and physiological performance of sweet pepper in different hydroponic solution. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
19. Fatema Khatun. January-June/2016. Growth, yield and physiological performance of sweet pepper as influenced by salt industries byproduct in hydroponic solution. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
20. Md. Shamsul Islam. January-June/2015. Effect of B and K on growth and yield of chili peppers. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
21. Md. Shariful Islam. January-June/2015. Effect of industries byproduct as a liquid fertilizer on growth and yield of lettuce in soilless culture. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
22. Hakimun Nahar. January-June/2015. Effect of different postharvest treatments and packing on quality and shelf-life of mango. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
23. Husnayara Hira. July-December/2014. Effect of nutrient solution on physiological growth and yield of hydroponic lettuce. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
24. Md. Samsuddin. January-June/2008. Effect of plant growth regulators and mulching on growth, yield and postharvest potential in tomato. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

25. Nargis Parvin. January-June/2008. Effect of plant spacing and planting time on growth and yield of stem amaranth (*Amaranthus lividus* R.). MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
26. Habiba Nasrin. July-December/2008. Effect of spacing and planting time on growth and bulb yield of onion (*Allium cepa* L.). MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.

MASTER STUDENTS' RESEARCH AS CO-SUPERVISOR

1. Eshita Jahan. 2019-2020.
2. Labiba Tasnim. 2019-2020.
3. Md. Jahidul Islam. January-June/2015. Effect of vermicompost on growth and yield of potato (*Solanum tuberosum* L.). MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
4. Taslima Akter. January-June/2015. Effect of giberellic acid and spacing on growth and yield of lettuce (*Lactuca sativa* L.). MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
5. Ayesha Akhter. January-June/2015. Effect of foliar application of giberellic acid and zinc on growth and yield of cabbage . MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
6. Most. Shamima Khatun. July-December/2008. Effect of plant spacing and potassium on growth and yield of cabbage. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
7. Md. Shariful Islam Khondakar. July-December/2008. Effect of nitrogen on the growth and yield of tomato varieties. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
8. Shohani Sharmin. July-December/2008. Effect of spacing and planting time on growth and yield of garlic. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
9. Md. Mizanur Rahman. January-June/2008. Effect of sources of nutrient and hormones on growth and yield of tomato. MS Thesis, Department of Horticulture, Sher-e-Bangla Agricultural University, Dhaka, Bangladesh.
10. Many more students

Passed PhD students' research (As supervisor/Major Professor):

1. Ferdous Ali. 2021. Development of low-cost and simple production techniques of button mushroom in Bangladesh
2. Farzana Islam. 2022. Development of low-cost and simple hydroponic system for strawberry in Bangladesh
3. Abul Basar Md. Nurul Hossain. 2022. Safe Gur production in Bangladesh (Member)
4. Md. Afzal Hossain. 2022. Effect of spacinf and planting time on growth and yield of yard long bean.

On Going PhD students' research (As supervisor):

5. Md. Shahjahan Ali. 2018. Development of low-cost and simple hydroponic system for tomato in Bangladesh
6. Samima Akter. 2019-2020. Value chain analysis of sweet gourd in Patuakhali? (Member of advisory committee)
7. Md. Abul Basahar (Member of advisory committee)

On Going Project as Principal Investigator:

1. 2022-2023: 'Hydroponic strawberry culture as influenced by different strength of nutrient solution under changing climate in Bangladesh' Ministry of Science and Technology, Government of Bangladesh
2. 2022-2023: "'Hydroponic grow-bag culture of tomato as influenced by organic growing substrates and cow dung leachate application as a nutrient solution additive' UGC (University Grants commission of Bangladesh), Government of Bangladesh, Dhaka
3. 2022-2023: 'Effect of organic growing substrate and zinc concentration on quality and yield of strawberry in hydroponic culture' SAURES, Sher-e-Bangla Agricultural University, Dhaka

4. 2023-2024: ‘Effect of nutrient solution concentration on quality and yield of celery in hydroponic culture’
SAURES, Sher-e-Bangla Agricultural University, Dhaka

Past Project as Principal Investigator:

1. 2020-2024: ‘Updating hydroponic culture of tomato and upscaling of hydroponic technology developed during the earlier studies with small scale public private partnership’ Bangladesh Academy of Sciences - United states Department of Agriculture (BAS-USDA)
2. 2015-2019: Development of low-cost and simple hydroponic system for capsicum and lettuce in Bangladesh.
Bangladesh Academy of Sciences - United states Department of Agriculture (BAS-USDA)
3. 2018-2021: ‘Development of hydroponic technique of Capsicum Under changing climate in Bangladesh’
Project, Social Science Research Council, Planning Division, Ministry of Planning.
4. 2018-2019: Stem pruning system of hydroponic capsicum for high quality fruit production under changing climate in Bangladesh.
SAURES, Sher-e-Bangla Agricultural University, Dhaka
5. 2017-2018: Hydroponic lettuce culture under changing climate in Bangladesh.
SAURES, Sher-e-Bangla Agricultural University, Dhaka
6. 2021-2022: Hydroponic grow-bag culture of tomato as influenced by organic growing substrates and cow dung leachate application as a nutrient solution additive’ Project, UGC (University Grants commission of Bangladesh), Government of Bangladesh, Dhaka.
7. 2018-2019: Development of hydroponic nutrient solution for hydroponic capsicum in Bangladesh.
University Grants commission, Government of Bangladesh, Dhaka
8. 2017-2018: Hydroponic capsicum culture under changing climate in Bangladesh.
Ministry of Science and Technology, Government of Bangladesh, Dhaka

9. 2018-2019: Development of hydroponic nutrient solution for hydroponic capsicum in Bangladesh.
University Grants commission, Government of Bangladesh, Dhaka
10. 2018-2019: Hydroponic lettuce as influenced by nutrient solution
Ministry of Science and Technology, Government of Bangladesh, Dhaka

Past Project as Team Leader:

1. 2019-2020. In-Depth monitoring on 'Chittagong Hill Tracts Mixed fruit cultivation in remote areas (1st Revised Project)', **Team Leader**. IMED (Implementation, Monitoring and Evaluation Division), Monitoring and Evaluation Sector-08, Ministry of Planning, Government of Bangladesh
2. 2021-2022. In-Depth monitoring on 'Advanced Technology Based Jute Fibre and Jute Seed Production and Expansion' Project, **Team Leader**. IMED (Implementation, Monitoring and Evaluation Division), Ministry of Planning, Government of Bangladesh
3. 2023-2024. Pest Risk Assessment (PRA) on Water melon, **Team Member**. DAE, Ministry of Agriculture, Government of Bangladesh
4. 2023-2024. Pest Risk Assessment (PRA) on Pineapple, **Team Member**. DAE, Ministry of Agriculture, Government of Bangladesh

Book Authors:

- a) Uddantattic Fosoler Chash (Bangla). 2024. Published by PKSF, IFAD, Embassy of Denmark and GMK,
- b) Nutrition and Health Security Training Guide for Trainers Using Potatoes, Vitamin A-Rich Sweet Potatoes, and Vegetables. 2018. International Potato Center, Lima, Peru.



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