

**Curriculum vitae**  
**of**  
**Md. Selim Reza**  
Scientific Officer (Research)  
Bangladesh Institute of Nuclear Agriculture (BINA)  
BAU Campus, Mymensingh, Bangladesh

**PERSONAL INFORMATION**

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Date & Place of Birth : 9<sup>th</sup> October, 1992; Pabna, Bangladesh  
Sex : Male  
E-mail : [selim.bsmrau48@gmail.com](mailto:selim.bsmrau48@gmail.com) and [selim@bina.gov.bd](mailto:selim@bina.gov.bd)  
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Google Scholar ID : <https://scholar.google.com/citations?hl=en&user=GHP2llEAAAAJ>

**EDUCATIONAL QUALIFICATION**

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|-----------------------------------------------------------------------------------|------|
| <a href="#"><u>MS in Agriculture (Soil Science)</u></a>                           | 2016 |
| Bangabandhu Sheikh Mujibur Rahman Agricultural University,<br>Gazipur, Bangladesh |      |
| <a href="#"><u>BS in Agriculture</u></a>                                          | 2014 |
| Bangabandhu Sheikh Mujibur Rahman Agricultural University,<br>Gazipur, Bangladesh |      |
| <a href="#"><u>Higher School Certificate (HSC)</u></a>                            | 2009 |
| New Government Degree College, Rajshahi, Bangladesh                               |      |
| <a href="#"><u>Secondary School Certificate (SSC)</u></a>                         | 2007 |
| Maskatadighi Multilateral Technical High School, Rajshahi,<br>Bangladesh          |      |

**EMPLOYMENT HISTORY**

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**Scientific Officer (Soil Science)**

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|----------------------------------------------------------------------------------------------------------------|-----------------------|
| Bangladesh Institute of Nuclear Agriculture (BINA)<br>Ministry of Agriculture, People's Republic of Bangladesh | January 2020- present |
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**Research Associate**

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|-----------------------------------------------------------------------------------------------------------|---------------------------|
| Bangladesh Wheat and Maize Research Institute<br>Ministry of Agriculture, People's Republic of Bangladesh | January 2017-October 2019 |
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### **Project Involvement**

- Principal Investigator of the project titled “Impact of organic and inorganic fertilizers on yield and nutrient uptake of cabbage.”
- Principal Investigator of the project titled “Assessing Yield and Biochemical Characteristics of Mustard Genotypes (*Brassica napus* L.) in Satkhira, Bangladesh: A Comprehensive Evaluation.”
- Principal Investigator of the project titled “Foliar application of micronutrients on growth and yield of mungbean.”
- Principal Investigator of the project titled “Growth and yield of mustard as influenced by different combined doses of zinc and boron.”
- Principal Investigator of the project titled “Vermicompost Leach's Effect on Onion Seed Germination and Seedling Emergence in Response to Drought Stress.”
- Principal Investigator of the project titled “Identification of appropriate potting mix for raising the seedlings and growing high-value crops (capsicum and spinach) in vertically staked layer to establish vertical farming along with conventional farming in the char land area.”
- Co-Investigator of the project titled “Screening of different Mungbean cultivars in saline prone areas.”
- Co-Investigator of the project titled “Salinity Stress on Plant Morphology and Yield Attributes of Soybean Genotypes”.
- Co-Investigator of the project titled “Evaluation of five soybean genotypes based on morpho-physiological characters under water stress condition”.
- Co-Investigator of the project titled “Effect of Different Level of Potassium and Sulfur Fertilizers on Growth and Yield of Onion (*Allium cepa* L.)”

### **SUMMARY OF SKILLS AND QUALIFICATIONS**

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- Qualified and technically-proficient Research Scientist with nearly four years of research experience in agricultural field (Soil Science and Crop Improvement).
- Well experience in sophisticated research techniques and technologies: field research, data analysis (R studio, Statistics10, SPSS, Excel).
- Organized, able to plan oversee research projects from concepts to successful completion and knowledge dissemination.
- Capable to effectively communicate information and research findings to the scientific community, resource managers, stakeholders and the general public.
- Participating research activities in the farmers’ field that established a linkage with farmers and facilitated technology transfer.
- Excellent organizational & time management skills; outstanding interpersonal skills; team builder and capable of working independently; flexible to work requirements; highly anxious for personal growth through professional development program.

- Eagerness to learn more as well as to strong Confidence to face challenges.

## PUBLICATIONS (Full-Length Research Article)

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01. **Reza, M. S.**, Islam, A. K. M. S., Rahman, M. A., Miah, M. Y., Akhter, S. & Rahman, M. M. (2016). **Impact of organic fertilizers on yield and nutrient uptake of cabbage** (*Brassica Oleracea* var. capitata). *Journal of Science, Technology and Environment Informatics*, 03(02), 231-244. [DOI: 10.18801/jstei.030216.26](https://doi.org/10.18801/jstei.030216.26).
02. **Reza, M. S.**, Hasan, M. J., Nadim, M., Chowdhury, S., Akter, M., & Kamruzzaman, M. (2023). Enhancing Growth, Yield, and Physio-Chemical Properties of Mustard (*Brassica Napus* L) Through Combined Application of Organic and Inorganic Fertilizers Under Salinity Condition in Satkhira, Bangladesh. *SAARC Journal of Agriculture*, 21(2), 169–182. <https://doi.org/10.3329/sja.v21i2.68021>.
03. **Selim Reza, M.**, Babul Akter, M., Moshir Rahman, M., Ibrahim Ali, M., & Bulbul Ahmed, M. (2022). Impact of Organic and Inorganic Fertilizers on Yield and Yield Contributing Characters of Mustard (*Brassica napus* L.). *Asian Journal of Soil Science and Plant Nutrition*, 8(1), 27–34. <https://doi.org/10.9734/ajsspn/2022/v8i130131>.
04. M.M. Rahman, **M.S. Reza**, S. Chowhan and M.B. Akter, (2022). GROWTH AND YIELD PERFORMANCE OF SEVEN RICE VARIETIES UNDER MODERATE SALINITY STRESS, Bangladesh J. Nuclear Agric, 36(1): 93-104.
05. **Selim, M. S. R.**, Adhikary, S., Mondal, M. A., Nadim, K. A., & Akter, B. (2023). Foliar Application of Different Levels of Zinc and Boron on the Growth and Yield of Mungbean (*Vigna radiate* L.). *Turkish Journal of Agriculture - Food Science and Technology*, 11(8), 1415–1421. <https://doi.org/10.24925/turjaf.v11i8.1415-1421.6107>.
06. Rahman, M. S., Sarker, P. C., Hossain, M. A., **Reza, M. S.**, Nadim, M. K. A., & Hasan, M. J. (2023). Influence of chemicals and crude plant materials as pre-storage treatment on seed quality of onion (*Allium cepa* L.). *Bangladesh Journal of Agriculture*, 48(2), 54–62. <https://doi.org/10.3329/bjagri.v48i2.70158>.
07. S. M. Abdul Alim, M. Monjurul Alam Mondal, Md. Mohimenul Islam and **Md. Selim Reza**. (2023). Impact of Polyhouse on Production Potential of Bitter Gourd in Off-season. *Journal of Agroforestry and Environment* Volume 16, Issue 1. **DOI:** <https://doi.org/10.55706/jae>.
08. Afsana Akter, Md. Kawsar Alam Nadim, Mariom Mitu, **Md. Selim Reza**, S.M. Abdul Alim and Md. Mohimenul Islam. (2023). Water Hyacinth: Potential Applications for Environmental Sustainability and Socio-economic Development. *Journal of Agroforestry and Environment* Volume 16, Issue 1. DOI: <https://doi.org/10.55706/jae>.

09. M. S. Rahman, T. Jahan, P. C. Sarker, **M. S. Reza**, S. Adhikary and M. M. Islam. (2023). Documentation of indigenous storage practices of pulse seed. *Journal of Agroforestry and Environment*, 16(1):50-57. DOI: <https://doi.org/10.55706/jae1607>.
10. Rahman, M. S., Sarker, P. C., Alam, T., **Reza, M. S.**, Adhikary, S. and Topu, M. A. A. (2023). Improving field emergence performance of soybean by sand matrix priming. *Journal of Science, Technology and Environment Informatics*, 12(02), 822-827. <https://doi.org/10.18801/jstei.120223.82>.
11. **Md. Selim Reza**, Bulbul Ahmed, S. M. A. Alim, Md. Mohimenul Islam, Md. Muzammal Hoque and Md. Kawsar Alam Nadim, (2022). Morphological Characterization and Adaptive Trial of Two Prominent T. Aman Rice (*Oryza sativa* L.) Lines under Different Locations of Bangladesh, *Asian Journal of Environment & Ecology*, Volume 19, Issue 4, Page 1-8. DOI: [10.9734/ajee/2022/v19i4414](https://doi.org/10.9734/ajee/2022/v19i4414).
12. Islam, M., Akter, M., Nadim, **M.**, **Reza, M.**, Uddin, M., & Khatun, F. (2023). Effect of Gamma Irradiation on Embryogenic Calli of Rice and Subsequent Shoot and Regeneration. *Bangladesh Journal of Nuclear Agriculture*, 37(2), 29–42. <https://doi.org/10.3329/bjnag.v37i2.71778>.
13. Banik, N., Khatun, K., Mostarin, T., Hasan, M. J., Alam, M. M., **Reza, M. S.**, Chowdhury, S. M. A. and Islam, M. M. (2024). Influence of biofertilizer, zinc and boron on the growth and yield of black cumin (*Nigella sativa* L.). *Asian Journal of Crop, Soil Science and Plant Nutrition*, 09(01), 343- 356. Crossref: <https://doi.org/10.18801/ajcsp.090124.42>.
14. Milon, M. R. K., Hossain, M. A., Hossain, A. K. M. Z. Alim, S. M. A., Islam, M., Kabir, M. A. and **Reza, M. S.** (2024). Effect of salinity on seed germination and seedling growth in five wheat cultivars grown in hydroponics. *Journal of Bioscience and Agriculture Research*, 32(01), 2620- 2628. Crossref: <https://doi.org/10.18801/jbar.320124.316>.
15. Manik, M. M. H., Razzaque, M. A., Haque, M. I., Joha, M. R. K., Syfullah, K., Khanam, A. A., **Reza, M. S.**, & Afrose, S. N. (2024). Effect of Different Level of Potassium and Sulfur Fertilizers on Growth and Yield of Onion (*Allium cepa* L.). *Asian Journal of Agriculture and Allied Sciences*, 7(1), 33–40. DOI: [10.56557/ajaas/2024/v7i140](https://doi.org/10.56557/ajaas/2024/v7i140).
16. Ahmed, M. R., Islam, M. M., **Reza, M. S.**, Hossain, M. S., Hossain, M. A., Rahman, M. H., & Rahim, M. A. (2024). Effect of Salinity on the Growth, Yield and Seed Production of Carrot. *ISSRA Journal of Agriculture & Life Science*, 3(5), 1–11. <https://doi.org/10.5281/zenodo.14077828>.
17. Easin Ali, Md. Alamgir Kabir, Muhammad Salim, Ahmed Khairul Hasan, Md. Azihullah, Md. Omar Ali, S. M. Abdul Alim, Md. Mohimenul Islam, Md. Shah Abdullah Al Mamun and **Md. Selim Reza**. (2024). Effect of Date of Sowing and Nitrogen Level on the Yield of Wheat. *Journal of Agroforestry and Environment* 2024, 17(2):39-48. DOI: <https://doi.org/10.55706/jae1715>.

18. Sayed Eshtiaq Akter, **Md. Selim Reza**, Sourav Adhikary, Md. Mahbubul Alam, Shah Mostaq Ahammad Chowdhury, M. Monjurul Alam Mondal. (2024). Effect of Salinity Stress on Plant Morphology and Yield Attributes of Soybean Genotypes. *ISSRA Journal of Agriculture & Life Science*; 3(4), 7-13.
19. **Reza, M. S.**, Adhikary, S., Nadim, M. K. A., & Hossain, M. E. (2025). Growth and Yield of Mustard as Influenced by Different Combined Doses of Zinc and Boron: Different doses on yield and yield contributing characteristics of mustard. *Bangladesh Journal of Agriculture*, 49(2), 101–110. <https://doi.org/10.3329/bjagri.v49i2.78273>.
20. Sarker, P. C., Rahman, M. S., Islam, M., Alam, T., & **Reza, M. S.** (2025). Vermicompost Leach's Effect on Onion Seed Germination and Seedling Emergence in Response to Drought Stress. *Turkish Journal of Agriculture - Food Science and Technology*, 13(2), 279–284. <https://doi.org/10.24925/turjaf.v13i2.279-284.6954>.
21. Mahbubur Rahman Khan, Shahida Arofi, Mahbuba Sultana Priti, **Md. Selim Reza** & Mahbubul Alam Tarafder. (2025). Global Meta-analyses Review of Biochar in Agriculture. *Journal of Global Agriculture and Ecology*, 17(4), 1–18. <https://doi.org/10.56557/jogae/2025/v17i49681>.
22. **Reza, M. S.**, Nadim, M. K. A., Islam, M. M., Al-Mahmud, S. & Khan, M. R. (2025). Field Evaluation and Biochemical Profiling of Mustard Genotypes for Sustainable Oilseed Production in Satkhira, Bangladesh. *Turkish Journal of Agriculture - Food Science and Technology*, 13(s1), 2338–2345. <https://doi.org/10.24925/turjaf.v13is1.2338-2345.7816>.
23. Akter, S. E., Mondal, M. M. A., Nadim, M. K. A., & **Reza, M. S.** (2025). Characterization of Morpho-Physiological Responses of Soybean Genotypes to Water Stress. *Turkish Journal of Agriculture - Food Science and Technology*, 13(9), 2686–2690. <https://doi.org/10.24925/turjaf.v13i9.2686-2690.7804>.
24. Nafizur Rahman, Sabera Yasmin, Md. Abdul Latif, Tanmoy Majumder, Habiba Hannan Opi, Nasif Rahman, Md. Jahid Hasan, Shah Mostaq Ahmed Chowdhury, Md. Kawsar Alam Nadim and Md. Selim Reza. Eco-Friendly Management of Sucking Insects and Mite Pests of Yard Long Bean. *Int. J. Agric. Food Sci.* 2025;7(10):293-297. DOI: <https://doi.org/10.33545/2664844X.2025.v7.i10e.885>.
25. M. S. Rahman<sup>1a</sup>, P. C. Sarker<sup>2</sup>, T. Jahan<sup>3</sup>, S. E. Akter<sup>4</sup>, S. A. Mahmud<sup>5</sup> and **M. S. Reza<sup>2a\*</sup>** CHEMICAL SCARIFICATION UNLOCKING CASHEW NUT GERMINATION POTENTIAL. *Bangladesh J. Agri.* 2025, 50(2):DOI: <https://doi.org/10.3329/bjagri.v50i2.86161>.
26. Khan, M. R., Arofi, S., Priti, M. S., **Reza, M. S.**, & Tarafder, M. A. (2025). Global Meta-analyses Review of Biochar in Agriculture. *Journal of Global Agriculture and Ecology*, 17(4), 1–18. <https://doi.org/10.56557/jogae/2025/v17i49681>.
27. Nafizur Rahman, Sabera Yasmin, Md. Abdul Latif, Tanmoy Majumder, Habiba Hannan Opi, Nasif Rahman, Md. Jahid Hasan, Shah Mostaq Ahmed Chowdhury, Md. Kawsar Alam Nadim and **Md. Selim Reza**. **Eco-Friendly Management of Sucking Insects and Mite Pests of Yard Long Bean.** *Int. J. Agric. Food Sci.* 2025;7(10):293-297. DOI: <https://doi.org/10.33545/2664844X.2025.v7.i10e.885>.

28. M. S. Rahman<sup>1a</sup>, P. C. Sarker<sup>2</sup>, T. Jahan<sup>3</sup>, S. E. Akter<sup>4</sup>, S. A. Mahmud<sup>5</sup> and M. S. Reza<sup>2a\*</sup>. CHEMICAL SCARIFICATION UNLOCKING CASHEW NUT GERMINATION POTENTIAL. Bangladesh J. Agri. 2025, 50(2): 30-37. DOI: <https://doi.org/10.3329/bjagri.v50i2.86161>.

## **THESES**

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### **Impact of organic and inorganic fertilizers on yield and nutrient uptake of cabbage.**

**MS Thesis** (Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh).

[https://www.researchgate.net/publication/311394401\\_Impact\\_of\\_organic\\_fertilizers\\_on\\_yield\\_and\\_nutrient\\_uptake\\_of\\_cabbage\\_Brassica\\_Oleracea\\_var\\_capitata](https://www.researchgate.net/publication/311394401_Impact_of_organic_fertilizers_on_yield_and_nutrient_uptake_of_cabbage_Brassica_Oleracea_var_capitata).

## **ATTENDED SEMINAR/CONFERENCE/SYMPOSIUM**

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1. Participated in the 22<sup>nd</sup> conference of the Bangladesh Society of Agronomy on **Agronomic Education and Research towards transforming Agriculture in Bangladesh** held on 09 December 2023.
2. Participated in the conference on **IoT-enabled Agricultural and Environmental Research, a Global Perspective** held on 07 August 2023.
3. Participated in the conference on **GIS and Remote Sensing** held on 14 June 2023.
4. Participated in the conference on **Bibliometric analysis for beginners** held on 30 January 2023.
5. Participated in the conference on Electronic-Project Management Information System (e-PMIS) held on 02 March 2025.

## **CERTIFICATION**

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- National Science and Technology (NST) fellowship, Ministry of Science and Technology, People's Republic of Bangladesh-2016
- Use of Nuclear Techniques in Agriculture, BINA, Bangladesh
- Extension Field Trip related to Agricultural and Rural programme organized by BSMRAU
- Use of fertilizer recommendation guide, BARC, Farmgate, Dhaka
- Data analysis software, "R".
- Project preparation software "PPS".
- Human Resource management
- Financial Expenditure Management, ACR, Income Tax and National Security
- ADP/RADP management system
- Special research grant from Science and Technology ministry
- N-28 NARS scientists foundation training course
- Climate change, carbon sequestration and adaptation strategies
- Modern farming management

- Scientific Report Writing
- Agronomic research to address unfavorable ecosystems
- Research Methodology and Excel Based Data Analysis fro Early Career Scientist
- Nuclear Orientation Training

#### **PROFESSIONAL AFFELIATION**

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- Bangladesh Institute of Nuclear Agriculture Scientists' Association (BINASA)
- Bangladesh Society for Soil Science
- Bangladesh Society for Organic Farming and Safe Food, Bangladesh
- Agriculturist Institution of Bangladesh (KIB)