



Professor (Soil Science)

School of Agriculture and Rural Development (SARD)
Bangladesh Open University (BOU), Gazipur-1705, Bangladesh
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Area of Specialization and Research Interest

Ecosystems of salt affected soils and their management, Problem soils and their sustainable uses and Analytical chemistry

Education Qualification

- PhD (**Monbusho Scholar**) in Environmental Science, Okayama University, Japan (2010)
- MSc in Soil Science, University of Dhaka, **First Class**, 1998 (Exam. held in 2000)
- BSc (Hons) in Soil Science, University of Dhaka, **First Class**, 1997 (Exam. held in 1999)
- HSC (Science), Government Rajshahi College, Rajshahi Board, **First Division***, 1993
- SSC (Science), Humayun Reza High School, Chapai Nawabgonj, Rajshahi Board, **First Division**, 1991

Professional Experiences

- 5/2018 – Present, **Professor (Soil Science)**, SARD, BOU
- 6/2012 – 5/2018, **Associate Professor (Soil Science)**, SARD, BOU
- 9/2008 – 6/2012: **Assistant Professor (Soil Science)**, SARD, BOU
- 3/2005 – 9/2008: **Lecturer (Soil Science)**, SARD, BOU
- 6/2003 - 3/2004: **Research Assistant**, Ministry of Education, Bangladesh
- 12/2001 - 6/2002: **Research Associate**, Trust for Water and Environmental Studies (TWEDS), Bangladesh
- 6/1999 - 7/2001: **Research Fellow**, DU, Bangladesh

List of Publications

1. **Abul Hasnat Md Shamim**, Md Abdul Mojid Mondol, Miraj Hossain, Tanvir Islam Shovo, Minhaz Uddin, Mohammad Nur-e-Alam, Iftekhar Alam, Hattan A. Alharbi, A.F.M. Motiur Rahman (2024): New antibacterial penicimenolide G with unusual 12-membered resorcylic acid lactone ring isolated from endophytic fungus *Aspergillus giganteus*. *Phytochemistry Letters* 62:18–23. **UK**
2. Sabiha Sarwar, Molla Rahman Shaibur, Mohammed Sadid Hossain, Md Rasel Hossain, Ishtiaque Ahmmed, Fee Faysal Ahmed, Md Akhter Hossain Sarker, **Abul Hasnat Md Shamim** (2023): Preparation of environmental friendly plastic brick from high-density polyethylene waste. *Case Studies in Chemical and Environmental Engineering* 7. **UK**
3. Taleb MA, **Shamim AHM** (2021): A morphological study on fifteen medicinal plants grown in Bangladesh Open University campus. *Int. J. Sustain. Crop Prod.* 16(3), 5-15. **Bangladesh**
4. **Abul Hasnat Md. Shamim** 2021: Medicinal Plants, A promising Source of Natural Fungicides

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- against *Magnaporthe oryzae* Triticum, Causal Agent of Wheat Blast. *American Journal of Plant Sciences*, 12, 748-758. **China**
5. Taleb MA and **Shamim AHM** (2021): Morphological studies of some medicinal plants grown in Bangladesh. *Int. J. Expt. Agric*, 11(1), 24-31. **Bangladesh**
 6. **Abul Hasnat Md. Shamim** 2018 (Published in 2021): Driving forces for sodium removal in desalinization during slaking and land drying practice, *Bangladesh Open University Journal of Open School*, 7(1): 71-82. **Bangladesh**
 7. Saima Ahmad and **Abul Hasnat Md. Shamim** 2019: Environmental Deterioration at the Teknaf Coast, Cox's Bazar, *Environmental and Biological Research*, 1: 72-83. **Bangladesh**
 8. **Abul Hasnat Md. Shamim**, Mohammad Moniruzzaman, Mahbuba Siddiquy and Molla Rahman Shaibur 2019: Status of Some Nutrients at Tejgaon Soil Series in 2001 and in 2018: A study from Bangladesh, *Environmental and Biological Research*, 1: 44-53. **Bangladesh**
 9. Molla Rahman Shaibur, **Abul Hasnat Md. Shamim**, Md. Mohiuzzaman Rizvi, Umme Amara and Sabiha Sarwar 2019: Local Adaptation Dstrategies with Waterlogging Condition in Beel Kapalia Region, Jashore, Bangladesh, *Environmental and Biological Research*, 1: 22-31. **Bangladesh**
 10. MR Shaibur, H Husain, **AHM Shamim**, Shamsunnahar, and Sadia Nawshin 2018: Re-construction of Drainage System and its Impact on Socio-economic Urban Life in Jessore Municipality, Bangladesh. *Journal of Jashore University Science and Technology*, 3(2):32-38. **Bangladesh**
 11. MR Shaibur, **AHM Shamim**, M Hasanuzzaman Khan and FKS Tanzia 2017: Exploration of soil quality in agricultural perspective at Gabura and Buri Goalini union: Shyamnagar, Satkhira, Bangladesh. *Bangladesh J. Environ. Sci.*, Vol. 32, 89-96. **Bangladesh**
 12. MR Shaibur, AFG Masud Reza, **AHM Shamim** and AA Mahmud 2017: Arsenic accumulation in different parts of pot grown vegetables. *Bangladesh J. Environ. Sci.*, Vol. 32, 76-81. **Bangladesh**
 13. **Abul Hasnat Md. Shamim**, M Moniruzzaman 2016: Crop yield and reduction of soil loss with selected hedge species under different hill slopes in Chittagong hill tract, *AJA*, 3(2), pp. 34-39. **Iran**
 14. **AHM Shamim**, MA Sobahan, B Saha, BK Sarker and MSU Tabrig 2015: Deterioration of soil and water quality by practicing shrimp culture in Satkhira, Bangladesh. *Journal of Soil and Nature*, 8(3), pp. 7-13. **Bangladesh**
 15. **AHM Shamim**, M Moniruzzaman and MS Rahman 2015: Study on salt accumulation in soil layers as affected by using different strength of saline water. *Journal of Soil and Nature*, 8(2), pp. 30-32. **Bangladesh**
 16. SZ Chowdhury, MA Sobahan, **AHM Shamim**, N Akter and MM Hossain 2015: Interaction effect of phosphorus and boron on yield and quality of lettuce, *AJA*, 2(6), pp. 147-154. **Iran**
 17. MSU Tabrig, **Abul Hasnat Md. Shamim**, MA Rahman, KMM Islam and T Akae 2013: Impacts of Salinity Problems on Livelihood in Bangladesh: A Case Study. *International Journal of Experimental Agriculture*, 3(1), pp. 13-21. **Bangladesh**
 18. MS Sultana, MZ Islam **AHM, Shamim**, MF Mondal 2012: Effect of growth regulators on physical changes and shelf life of banana during storage. *International Journal of Sustainable Crop Production*, 7 (3), pp. 31-35. **Bangladesh**
 19. **Abul Hasnat Md. Shamim** and Takeo Akae 2011: Impacts of Soil Slaking and Drying on Release and Retention of Cations during Desalinization from Saline Soil. *Journal of the Japanese Society of Soil Physics*, 118, pp. 3-11. **Japan**
 20. **Abul Hasnat Md. Shamim** and Takeo Akae 2011: Effect of Initial Water Content on Saturated Hydraulic Conductivity in Desalinization with Slaking and Drying. *Journal of Paddy and Water Environment*, vol. 9 (2), pp. 221-228. **Germany**
 21. **Abul Hasnat Md. Shamim**, Md. Harunor Rashid Khan & Takeo Akae 2010: The Effectiveness of Sulfidic Materials as a Source of Sulfur Fertilizer for the Production of Rice in Two Sulfur Deficient Soils. *The Songklanakarin Journal of Science and Technology*, 32 (6), pp. 643-652. **Thailand**

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22. **Abul Hasnat Md. Shamim** and Takeo Akae 2010: Effect of Pre-Dried History and Initial Water Content on Soil Slaking and Desalinization. Transaction of the Japanese Society of Irrigation Drainage and Rural Engineering, 269, pp. 325-330. **Japan**
 23. Mollah Rahman Shaibur, **Abul Hasnat Md. Shamim** and SM Imamul Huq and Shigenao Kawai 2010: Comparison of Digesting Capacity of Nitric Acid and Nitric Acid-Perchloric Acid Mixture and the Effect of Lanthanum Chloride on Potassium Measurement, Journal of Nature and Science, vol. 8 (5), pp. 157-162. **Bangladesh**
 24. **Abul Hasnat Md. Shamim**, Md. Harunor Rashid Khan and Takeo Akae 2009: Effects of Incubation Times and Moisture Regimes on pH Values and Exchangeable Cations in Acid Sulfate Soils as Influenced by Application Rates of Basic Slag. Journal of Paddy and Water Environment, vol. 7, issue 2, pp. 95-103. **Germany**
 25. **Abul Hasnat Md. Shamim**, Md. Harunor Rashid Khan and Takeo Akae 2009: Effectiveness of Sulfidic Materials on N, P, K, Mg and S Nutrient Uptake by Rice Plants Grown in Sulfur Deficient Soils under Field Experiment. New York Science Journal, vol. 2 (4), pp. 33-41. **America**
 26. **Abul Hasnat Md. Shamim**, Md. Harunor Rashid Khan and Takeo Akae 2008: Impacts of Sulfidic Materials on the Selected Major Nutrient Uptake by Rice Plants Grown in Sulfur Deficient Soils under Pot Experiment. Journal of American Science, vol. 4 (3), pp. 68-74. **America**
 27. MR Shaibur, **AHM Shamim** and S Kawai 2008: Growth Response of Hydroponic Rice Seedlings at Elevated Concentration of Potassium Chloride. Journal of Agriculture and Rural Development, vol. 6 (1), pp. 43-53.
 28. **Abul Hasnat Md. Shamim**, Md. Harunor Rashid KHAN and Takeo AKAE 2008: Neutralizing Capacity of Basic Slag in Acid Sulfate Soils and Its Impacts on the Solubility of Basic Cations under Various Moisture Regimes. Journal of the Environmental Science and Technology, vol. 13, no. 1, pp. 67-74. **Japan**
 29. Md. Harunor Rashid Khan, SM Abu Syeed, Farook Ahmed, **AHM Shamim**, Yoko Oki and Tadachi Adachi 2007: Response of Sunflower to Sulfidic Materials and Magnesium Sulfate as Sulfur Fertilizer. Journal of Biological Sciences 7 (6):888-895. **Pakistan**
 30. **AHM Shamim** and H R Khan 2005: Effect of sulfidic materials and gypsums on the growth and yield of rice grown on sulfur-deficient soil under field conditions. The Journal of Open School, vol. 2, No. 2, pp. 145-154. **Bangladesh**
 31. HR Khan and **AHM Shamim** 2004: Response of rice to sulfidic materials and gypsum in S-deficient soils under pot experiment. Bangladesh Journal of Soil Science, vol. 30, pp. 83-87. **Bangladesh**
 32. HR Khan, MMA Bhuiyan, SM Kabir, F Ahmed, SMA Syeed, **AHM Shamim**, MSH Bhuiyan and MR Khaleda 2002: Environmental problems arising from salt-affected coastal soils in Bangladesh. Bangladesh Environment (Eds.) M Feroze Ahmed, Saleh A Tanveer, ABM Badruzzaman, Bangladesh Poribesh Andolon (BAPA), pp. 964-977. **Bangladesh**

Study Materials/Books

1. **Abul Hasnat Md. Shamim and Rezwanul Islam 2022**: E-krishi, swore o publisher, Banglabazar, Dhaka-1100.
2. **Dr. Abul Hasnat Md. Shamim** 2020: Pathavas: shikkha, Noitikota and Unnayan, Dibbya Prokash publisher, Banglabazar, Dhaka-1100.
3. **Abul Hasnat Md. Shamim** et al., 2016: Agricultural Studies- 2nd paper for classes 11 and 12 (according to NCTB syllabus). Sonali Sopan publication, Banglabazar, Dhaka-1100.
4. **Abul Hasnat Md. Shamim** et al., 2015: Agricultural Studies- 1st paper for classes 11 and 12 (approved by NCTB). Sonali Sopan publication, Banglabazar, Dhaka-1100.
5. **Abul Hasnat Md. Shamim** 2015: Reclamation of Problem Soils, LAP LAMBERT Academic Publishing, **Germany**, ISBN: 978-3-659-69905-4.

Postgraduate Student Supervised

- Commonwealth Executive Master of Business Administration (CEMBA) Student: 02 (Two)
- Master of Sustainable Agriculture and Rural Livelihood (MSARL), Student: 08 (Eight)

Research Project

- Search for eco-friendly pesticides from triphala against economically important plant pathogens (2022-2023), (Running)
- **Shamim, AHM.** (Chief investigator). 2020-2021. Search for new environmental friendly agro-chemicals from endophytic fungi against *Penicillium Spp*, BOU internal fund, Finished & Accepted.
- **Shamim, AHM.** (Chief investigator). 2019-2020. Scale up culture, isolation, structure determination and activity test of new pesticides from soil *Streptomyces* spp. against wheat blast pathogen, *Magnaporthe oryzae*, BOU internal fund, Finished & Accepted.
- **Shamim, AHM.** (Chief investigator). 2018-2019. Search for new pesticides from soil *Streptomyces* spp. against wheat blast pathogen, *Magnaporthe oryzae*, BOU internal fund, Finished & Accepted.
- **Shamim, AHM.** (Chief investigator). 2017-2018. Antimicrobial activity screening of selected medicinal plants of Bangladesh against antibiotic resistant human pathogens, BOU internal fund, Finished & Accepted.
- **Shamim, AHM.** (Co investigator). 2017-2018. Conservation and sustainable use of selected medicinal plants at Bangladesh open university campus, BOU internal fund, Finished & Accepted.

Video and Audio Programs

No of video program recorded: 21

No of audio program recorded: 21

Editor/member of Journal and Publications

- **Editorial Board Member, Journal of Soil and Nature**, Green Global Foundation Journals. (<http://ggfjournals.com/content/editorialBoard/jsn>)
- **Managing Editor, Journal of Environmental and Biological Research** (<https://ebrjournal.site/>)

Major Academic and/or Administrative Responsibilities/Duties

- **Convener, Syllabus and Course Layout Preparation committee**, Master of Science in Soil Science, SARD, BOU
- **Member of School Committee**, SARD, BOU from 09/10/2006 to 01/10/2007
- **Member of School Committee**, SARD, BOU from 09/05/2013 to 08/05/2015
- **Member of School Committee**, SARD, BOU from 30/01/2018 to date
- **Media Coordinator**, SARD, BOU (Co-ordinate BTV and Radio telecast schedule, justify program quality after recording before telecast etc.) from 06/01/2011 to 05/01/2013
- **Program Coordinator**, Bachelor of Agricultural Education Program (**BAgEd**), SARD, BOU from 15/02/2015 to 23/04/2017
- **Member, Academic Council**, Bangladesh Open University, Gazipur-1705 from May 2018 to

date

- **PPD Coordinator, BAgEd Program**, SARD, BOU from 16/11/2017 to 14/09/2020
- **Coordinator**, MS in Agricultural Sciences Program in Soil Science, SARD, BOU from 01/05/2017 to Present
- **External Member**, Curriculum Committee, Master of Disaster Management Program (MDM), Open School, BOU
- **Member**, Bangladesh Open University Journal of Agriculture and Rural Development
- **Convener**, Curriculum and Syllabus Development Sub-Committee, Masters in Sustainable Agriculture and Rural Livelihood Program, SARD, BOU
- **BYDW Coordinator, BYDW Program**, SARD, BOU from 17/08/2020 to present

Workshop/Conference/Symposia/Meeting Participated and Presented/Training

- I attended in an online workshop for “Capacity Building of BOU Faculty Members on Design and Development of Self Learning Materials held from 12 – 15 October 2020” jointly organized by BOU and CEMCA.
- Commonwealth Youth Senior Officials Meeting (Asia Region) organized by Commonwealth Secretariat, United Kingdom in partnership with the Ministry of Culture, Youth and Sports of Brunei Darussalam held on August 27-29, 2019 in Bandar Seri Begawan, Brunei Darussalam.
- I attended a training program on “ICT and e-Learning System” jointly organized by BOU and KOICA held from 15 – 28 May 2013 under the project on Establishment of ICT and Web-based Learning System in Bangladesh Open University”.
- I received a training program on “e-Learning Training Workshop” jointly organized by Bangladesh Open University (BOU) and Korea International Cooperation Agency (KOICA) held from 30 July to 14 August 2012 and from 17 to 19 September 2012 under the KOICA aided project, “Establishment of ICT and Web-based Learning System in Bangladesh Open University”.
- I participated in the workshop on “Creative Methodology of Teaching and Learning” organized by Bangladesh Open University (BOU) at Gazipur, Bangladesh, dated on 26 to 28 December, 2011.
- I received a training program on “Multi-media Programme Development” organized by Bangladesh Open University (BOU), at Gazipur, Bangladesh dated on 05 to 09 February, 2011.
- Annual Conference of “Japanese Society of Irrigation, Drainage and Rural Engineering” August 31 to September 2, 2010, Kobe University, Japan.
- Annual Conference of “Japanese Society of Irrigation, Drainage and Rural Engineering” August 4-6, 2009, Tsukuba University, Japan.
- International Symposium on “Environmental Science and Technology 2009” March 18-19, Okayama University, Japan.
- International Colloquium on “Environmental Education in Asia” March 18-19, 2009, Okayama University, Japan.
- The 5th International Conference on “Interfaces against Pollution 2008”, June 1 to 4 Kyoto, Japan.
- Workshop on “Diploma in Youth in Development Work program” organized jointly by the Bangladesh Open University and the Commonwealth Youth Program Asia Centre, India, 27 to 29 March, 2007.
- I have been completed a tutors training workshop on “Diploma in Youth in Development Work (DYDW) program” organized jointly by the Bangladesh Open University (BOU) and the Commonwealth Youth Program Asia Centre, India dated on 27 to 29 March, 2007.
- Workshop on “Instructional Design” organized by Bangladesh Open University, Campaign for Popular Education and the Commonwealth of Learning, Canada, 7 to 11 May, 2006.

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- I have been completed a training program on “Capacity Building for ODL Materials” organized by Bangladesh Open University (BOU) dated on 12 to 19 March, 2006.
 - I received a training program on “Instructional Design” organized by Open School of Bangladesh Open University (BOU), Campaign for Popular Education (CAMPE) and the Commonwealth of Learning (COL), Canada dated on 7 to 11 May, 2006.

Recognition and Merit Awards

- Awarded Japanese Government Scholarship (Monbukagakusho) for PhD study at Okayama University in Japan from 2007-2010
- Got Shohidullah Hall, Dhaka University merit scholarship (1999) on BSc (Hons) examination result (First class)
- Achieved Government Scholarship (1993) on HSC examination result (Total marks 79.7%)
- Won Junior Government Scholarship both in Primary (1987) and High school levels (1989)

Member of professional and learned bodies

- The Japanese Society of Irrigation, Drainage and Rural Engineering (JSIDRE)
- International Society of Paddy and Water Environment Engineering (PWEE)
- Soil Science Society of Bangladesh (SSSB)
- Society of Agriculture and Environmental Chemists (SAEC)
- Life Member - Dhaka University Soil Science Association (DUSSA)
- Life Member - Soil Science Ex-Student Association - EDAPHOS