

Curriculum Vitae



1. Full Name	: Dr. Md. Asaduzzaman Khan
2. Father's name	: Late Md. Abdul Bari Khan
3. Mother's Name	: Ferdousi Begum
4. Date of birth	: 10 th January 1964
5. Nationality	: Bangladeshi by birth
6. Marital status	: Married
7. Religion	: Islam (Sunny)
8. Contact telephone no.	: 01552498705 E-mail: makhan@sau.edu.bd
9. Permanent Address	: Village: Bhatgaon, P.O.: Rangchapra, Upazilla- Bhaluka, Mymensingh
10. Present Address	: Professor, Department of Soil Science, Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka-1207 E-mail: makhan_sau@ymail.com , makhan@sau.edu.bd

11	Academic degrees and awards				
	Subject	Name of Degree	University	Country	Year
	Soil Science	Post. Doc.	Rothamsted Research	UK	2009
	Soil Science	Ph.D.	Bangladesh Agricultural University	Bangladesh	2007
	Soil Science	M. Sc. Ag. (Soil Science)	Bangladesh Agricultural University	Bangladesh	1990
	Agriculture	B. Sc. Ag. (Hons.)	Bangladesh Agricultural University	Bangladesh	1986 (held in 1989)
	Science	H.S.C	Dhaka Board	Bangladesh	1981
	Science	S.S.C	Dhaka Board	Bangladesh	1979

12	Teaching Experience: 30 years 10 months				
	Designation	Name of the Institute	Tenure of Service		Service Length
			From	To	
	Professor, Soil Science	Sher-e-Bangla Agricultural University, Dhaka	24-05-2011	to date	10 years 4 months
	Associate Professor, Soil Science	Sher-e-Bangla Agricultural University, Dhaka	24-05- 2007	23-05-2011	4 years
	Assistant Professor, Soil Science	Sher-e-Bangla Agricultural University, Dhaka	11- 09-2001	23-05- 2007	5 years 8 months 12 days
	Lecturer, Soil Science	Sher-e-Bangla Agricultural University, Dhaka	14-07-1995	10-09-2001	6 years 1 months 26 days
	Lecturer, Soil Science	Hajee Mohammad Danesh University of Science and Technology, Dinajpur	15-08-1994	13-07-1995	11 months 28 days
	Lecturer, Soil Science	Patuakhali University of Science and Technology, Patuakhali	01-12-1990	14-08-1994	3 years 8 months 13 days

- Patuakhali Agricultural College is converted into Patuakhali Science and Technology University in 2000. Hajee Mohammad Danesh Agricultural College is converted into Hajee Mohammad Danesh University of Science and Technology in 2002

Description of the Job	<p>The main job responsibility is to conduct BS, MS and PhD level courses and supervise MS and PhD students in different areas of soil, environment and crop science. I am conducting Soil 601: Soil Chemical Environment and Plant Growth, Soil 602: Biochemical Processes in soil, Soil 604: Integrated Nutrient Management and Sustainable Agriculture and Soil 606: Analysis of Soil, Plant and Water for the PhD students; SOIL 502: Soil Chemistry, SOIL 504: Soil Fertility and Plant Nutrition and SOIL 508: Soil Organic Matter for MS students;</p> <p>SOIL- 403: Soil Fertility and Soil Microbiology, SOIL- 404: Experiments on Plant Nutrition and Soil Microbiology, SOIL- 303: Soil Physics and Soil Chemistry, SOIL- 304: Physical and Chemical Analysis of Soils, SOIL- 256: Field and Laboratory Study of Soil and SOIL-105: Introductory Soil Science courses for the undergraduate students.</p> <p>The second duty is to conduct research and generate new knowledge on arsenic and heavy metal pollution in soil-water-plant system, soil fertility management, nutrient availability and movement in soil-water system and accumulation in plants. Publish research findings in the reputed national and international journals for wider circulation and application in the field of agriculture that may contribute to bring sustainability in agriculture and the environment.</p>
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13. Research supervisor of Master's and PhD students:

Position	M. S. offered	M.S. enrolled	Ph.D. Offered	Ph.D. Enrolled
Supervisor	40	07	3	2
Co-Supervisor/Committee member	25	5	6	4

14. Some Important Research Publications:

1. **M.A. Khan**, M.R. Islam, G.M. Panaullah, J.M. Duxbury, M. Jahiruddin, R.H. Loeppert. 2009. Fate of irrigation-water arsenic in rice soils of Bangladesh. *Plant Soil*. 322(1): 263-277.
2. **M. A. Khan**, J. L. Stroud, Y. G. Zhu, S. P. McGrath, F. J. Zhao. 2010. Arsenic bioavailability to rice is elevated in Bangladeshi paddy soils. *Environ. Sci. Tech.* 44 (22)8515-8521.
3. **M. A. Khan**, M.R Islam, G.M. Panaullah, J.M. Duxbury, M. Jahiruddin, R.H. Loeppert. 2010. Accumulation of arsenic in soil and rice under wetland condition. *Plant Soil*. 333, 1, 263-272.
4. F. J. Zhao, J. L. Stroud, **M. A. Khan**, S. P. McGrath. Arsenic translocation in rice investigated using radioactive ⁷³As tracer. *Plant Soil*. 2012, 350:413-420.
5. J. L. Stroud, **M. A. Khan**, G. Norton, M.R. Islam, T. Dasgupta, Y. G. Zhu, A. Price. S. P. McGrath, F. J. Zhao. 2011. Assessing the labile arsenic pool in contaminated paddy soils by isotopic dilution techniques and simple extractions. *Environ. Sci. Tech.* 45, 4262-4269.
6. W-L Ye, **M. A. Khan**, S. P. McGrath, F. J. Zhao. 2011. Phytoremediation of arsenic contaminated paddy soils with *pteris vittata* markedly reduces arsenic uptake by rice. *Environ. Pollu.* 159, 3739-3743.
7. H Khalid, FM Aminuzzaman, K Amit, AA Faria, AI Mitu, MSM Chowdhury, J Shammi, **MA Khan**. 2021. Evaluation of the combined application of *Purpureocillium lilacinum* PLSAU-1 and *Glomus* sp. against *Meloidogyne incognita*: implications for arsenic phytotoxicity on eggplant. *Eur. J. Plant Pathol.* (2021) 159:139–152
8. **M. A. Khan**. 2009. Arsenic fractionation in agricultural soils of Bangladesh. *Int. J. Agric. Environ & Biotech.* 2(2) 166-169.
9. **M. A. Khan**, S. A. Shampa, M. B. Hossain. 2021. Effects of Irrigation, Fertilizer and Manure on Pore-Water Nutrient Availability, Yield and Change of Soil Chemical Properties with Rice-Rice Cropping. *Communications in Soil Science and Plant Analysis*. 52(20) 2597-2608 (<https://doi.org/10.1080/00103624.2021.1953057>)
10. M.M. Rahman, **M. A. Khan**, A. K. Paul and M. A. Haque. 2019. Effect of fertilizer, manure and irrigation on nutrient availability in soil of boro rice field, *Eurasian Journal of Soil Science (EJSS)* 8(4):282-288

11. **M. A. Khan**, M. R. Islam, G. M. Panaullah & R. Begum.2006. Effects of irrigation arsenic on the growth and yield of rice in four soils of Bangladesh. J. Agric. Sci. Technol. 7(1&2) 85-90.
12. **M.A. Khan**, M.R. Islam,G.M. Panaullah, J.M. Duxbury, M. Jahiruddin, R.H. Loeppert. 2007. Effects of irrigation water and soil added arsenic on growth and yield of crops in rice-rice cropping pattern. J.Sher.Agric.Univ. 1(1): 1-7.
13. A.S. Mitu, **M. A. Khan** and M. R. U. Rashed. 2017. Effect of Fertilizer Manure and Lime on Growth. and Yield of Boro Rice in Acidic Red Soil Agril. Res. & Tech.vol.5(5)
14. **M. A. Khan**, M. A. Islam, A.S.M.F. Bari and S. Akter.2017. Effect of fertilizer and manure on the movement of NPKS in rice soils of Madhupur Tract and Meghna River Floodplain. Bangladesh J. Agron. 20(2)
15. M. A. Islam, **M. A. Khan** and M. A. Rouf. 2017. Nutrient dynamics in paddy soil under rice culture mesocosm studies. J. Bang. Agril. Univ.vol.15(2)
16. **M. A. Khan**, S. A. Shampa, M. B. Hossain. 2021. Plant Nutrient Availability in Soils of Rice Root Zone and Root Free Areas under Different Management Practices. J Bangladesh Agril Univ 19(1): 44–52
17. M.Rouf, **M. A. Khan**, M. H. Rabin, A. Barman, M. N. H. Mehedi. Effect of Fertilizer and Manure on the Change of Nutrient Availability of T. Aman Rice in Different Soil. Journal of Agriculture and Veterinary Science.11 (5) 17-21.
18. M. A. Rouf, **M. A. Khan**, A. S. Mitu, M. H. Rabin, P. Biswas and M. A. Al Masud.2017. Interaction Effect of Fertilizer and Manure on the Growth and Yield of T. Aman Rice in Different Soil. International J. Sci. Res. Pub. Vol. 7(9)
19. M. M. A. F. Islam, **M. A. Khan**, A.S.M. F. Bari. 2013. Effect of fertilizer and manure with different water management on the growth, yield and quality of Boro rice. J. Expt. Biosci. Vol.4(2).
20. A.S.M. F. Bari, **M. A. Khan**, S. Sultana.2013. Effect of various organic manure and inorganic fertilizer with different water management on the growth and yield of boro rice. The Agriculturist.vol.11 (2) 44-51.
21. IJ Irin, PK Biswas, MJ Ullah, TS Roy, **MA Khan**. 2019. Influence of Green Manuring Crops on Dry Matter Production and Soil Health Improvement. Bangladesh Agronomy Journal. Vol. 20(1)
22. A. Ahmed, M.M.R Parvej, M. H. A. Amin, A. K. Paul and **M. A. Khan**. 2021. Modern Rice (*Oryza sativa* L.) Production Potentiality through a Sorts of Management Practice. Acta Scientific Agriculture. 5(5).
23. F. Naznin, M.A. Hossain, **M.A. Khan**, M.A. Islam and A.K.M.H. Rahman.2020.Effect of boron on growth, yield and nutrient accumulation in Blackgram. The Agriculturist. vol.18 (2).

24. M.A. Islam, M.A. Hossain, M.A. Razzaque, F. Naznin and **M.A. Khan**. 2020. Effect of different levels of potassium on nodulation, quality, yield and nutrient uptake of Mungbean. *The Agriculturist*. vol.18 (2).
25. **M. A. Khan**, G. N. C. Sutradhar, R. Begum, M. S. Miah and M. Z. A. Reza. 2000. Effect of intensive fertilization on P sorption desorption of a paddy soil. *J. Agril. Edu.& Tech.* 3(1&2) 73-78.
26. M. A. Razzaque, A. T. M. Shamsuddoha, **M. A. Khan** and M. W. Zaman. 1998. Effect of surface and groundwater irrigation on some physico-chemical properties of surface and subsurface soils. *J. Agril. Edu.& Tech.* 1(2) 142-147.
27. **M. A. Khan**, M. Jahiruddin and M. Bodruzzaman. 1996. Response of wheat to boron in relation to different varieties and sowing dates. *Bangladesh J. Agril. Sci.* 23 (2) 27-32.
28. M. Bodruzzaman, M. Jahiruddin, M. S. Hoque and **M. A. Khan** .1998. Integrated use of fertilizers and cowdung in a wheat-rice cropping pattern. *Bangladesh J. Agril. Sci.* 25(2) 247-252.
29. B. D. Sen, A. K. Paul, **M. A. Khan** and M. Ishaque. 1998. Effect of sulphur on the quality of T. Aman rice under different levels of NPK fertilizer. *J. Agril. Edu.& Tech.* 1(1) 28-32.
30. G. N. C. sutrdhar, A. K. Paul, **M. A. Khan**, N. M. Rahmatullah and M. J. Abedin. 1998. Vesicular-arbuscular mycorrhizal 5ournal5e potential in cultivated and virgin soils of Queensland with different cropping history of chickpea (*Cicer arietinum* L.). *J. Agril. Edu.& Tech.* 1(2) 148-152.
31. **M.A. Khan**, S.A. Shampa, P.K. Biswas, and M.B. Hossain. 2021. Effects of irrigation, organic and inorganic nutrient sources on the growth, yield and soil fertility status with rice-rice cropping. *Bangladesh Agronomy Journal.* 24(1)
32. F. Johura, **M. A. Khan**, A. K. Paul, M. Zonayet, N. Hossain, T. K. Roy, K. Syfullah and M. O. Faruq. 2021. Assessment of the effects of zinc and copper on the growth and yield of tomato. *Asian Journal of Plant and Soil Sciences.* 6(1): 23-30
33. Z. A. Reza, N. M. Rahmatullah & **M. A. Khan**. 2006. Estimation of paddy production functions in Bangladesh using panel data. *J. Agric. Sci. Technol.* 7(1&2) 24-30.
34. **M.A. Khan**, M. R. Islam, G. M. Panaullah, J. M. Duxbury, M. Jahiruddin, R. H. Loeppert and C. A. Meisner. 2005. Movement of arsenic in irrigated rice soil. Proc. 8th international conference on the biogeochemistry of trace elements. Adelaide, Australia. 3-7 April, 224-225
35. **M. A. Khan**, M.R. Islam, G.M. Panaullah, J.M. Duxbury, M. Jahiruddin, R.H. Loeppert, and Meisner, C.A. 2005. Movement of arsenic in irrigated rice soil. Proc. 8th International Conference on the Biogeochemistry of Trace Elements, Ed. Enzo Lombi et. al., pp. 224-25. [Australia]
36. **M. A. Khan** and S. S. Sultana. 2021. Effect of Fertilizer and Manure on Nutrient Availability, Accumulation and Yields of Boro Rice under Madhupur Tract and Young Brahmaputra-Jamuna Floodplain. *The Agriculturist* 19(1 &2) 47-62.

37. IJ Irin, PK Biswas, **MA Khan**. 2021. Efficacy of different green manuring crops to soil fertility, yield and seed quality of T. aman rice. *Asian J. Med. Biol. Res.* Vol. 7(4)
38. **Khan, MA**, Gaihre, YK and Rahman, A. Comparative assessment of applicators for urea deep placement in transplanted rice fields. *Asian Journal of Crop, Soil Science and Plant Nutrition*, 2022 July 07(01), 263-271.
39. PhD Thesis: **M. A. Khan**. 2007. Movement of Arsenic in Irrigated Rice Soil. Department of Soil Science, Bangladesh Agricultural University. Mymensingh
40. M.S. Thesis: **M. A. Khan**. 1996. Response of Wheat to Boron at Different Dates of Sowing. Department of Soil Science, Bangladesh Agricultural University. Mymensingh
41. M.N Huda, S.M. Masum, M.O.A Mollick and **M.A. Khan**. 2023. Effect of fertilizer on the growth and yield of Boro and T. Aman rice in the soils of industrially polluted agricultural land areas of Madhupur Tract. *Bangladesh Agronomy Journal*. 26(1)
42. N.J. Sunny, H. Siddika and **M. A. Khan**. 2023. Effect of sulphur and zinc fertilizers on the growth and yield of chili (BARI Morich 4). *J. Sher-e-Bangla Agric. Univ.*, 14(1&2): 59-68.
43. **M.A. Khan** and M.O.A Mollick. 2022-2023. Effect of lime, fertilizer and manure on nitrogen and phosphorus availability and rice growth on acidic red soils. *Research Abstracts. Ministry of Science and Technology Funded Research Projects*.
44. M. Shamsuzzoha and M. A. Khan. 2024. Effect of Industrial Soil Contamination and Fertilizer Management on Growth, Yield and Metal Uptake by BARI Tomato 8. *J Bangladesh Agril Univ* 22(4): 404–411

15. Experience in Implementing Project/Research

Title of the Project/ Research Activities	Donor/ Sponsor	Position in the Project	Year	
			From	To
Effects of fertilizer, manure and irrigation on the nutrient availability and mobility in soils under rice culture	Ministry of Science and Information & communication.	Principal Investigator	July 2011	to June 2012
Influence of fertilizer, manure and water management on soil fertility, nutrient availability and productivity under rice-rice cropping system	Bangladesh Agricultural Research Council	Principal Investigator	July 2011	to June 2014
Effects of fertilizer, manure and lime to change in soil pH and nutrient availability in acidic red soils under rice cultivation	Ministry of Science and Technology.	Principal Investigator	July 2011	to June 2014
Effect of industrial wastewater and arsenic polluted irrigation water on metal accumulation in food crops grown in the contaminated soils of selected industrial and agricultural land areas	Ministry of Science and Technology.	Principal Investigator	July 2015	to June 2016
Effect of industrial wastewater on the change of soil chemical properties and accumulation plant nutrient and heavy metals in agricultural land areas of Bhaluka, Mymensingh ”	Ministry of Science and Technology.	Principal Investigator	July 2018	to June 2019
Establishment of IQAC at Sher-e-Bangla Agricultural University, Dhaka	World Bank	Project Manager	July 2015 to	June 2018
Evaluate the change of soil chemical properties and productivity of industrially polluted agricultural land areas and building up farmers’ awareness about soil pollution by disseminating research findings to the farmers of industrially polluted areas.	Ministry of Science and Technology.	Principal Investigator	July 2020	to June 2021
Evaluating the levels of heavy metals in crops and soils of industrially polluted selected areas of Bangladesh	Sher-e-bangla Agricultural University Research System (SAURES)	Principal Investigator	July 2021	to June 2022

15) Administrative, Professional and Cultural Associations

Name of the Post	Organization/Department/ Association	Year
Director, Research	Sher-e-Bangla Agricultural University	June, 2023- till today
Syndicate Member	Habiganj Agricultural University	2021
Academic Auditor	Bangladesh Accreditation Council	2023
Director	Institutional Quality Assurance Cell (IQAC), Sher-e-Bangla Agricultural University, Dhaka.	July 2015 to till today.
Director	Physical Education, Sher-e-Bangla Agricultural University, Dhaka.	July 2014 to July 2015
Director	Outreach Program, Sher-e-Bangla Agricultural University, Dhaka.	January 2013 to June 2014
Chairman	Department of Soil Science, Sher-e-Bangla Agricultural University, Dhaka.	January, 2010 to December 2012
Assistant Provost	Sheikh Kamal Hall, Sher-e-Bangla Agricultural University, Dhaka	2001
Provost	Kabi Kazi Nazrul Islam Hall, Sher-e-Bangla Agricultural University, Dhaka	May 2008 to January 2009

16) International Seminars/Workshops Attended

Participated in the 8th International Conference on the “Biogeochemistry of Trace Elements” held in Adelaide, Australia during 03-07 April 2005.

Participated in the International Conference on the “Behavior of Arsenic in Aquifers, Soils and Plants: Implications for Management” during January 16-18, 2005.

17) Membership of Professional Societies

Syndicate Member: Habiganj Agricultural University

Member: Krishibid Institution Bangladesh

Member: Bangladesh Society of Soil Science

Member: Agronomy Society of Bangladesh

Member, Academic Council, SAU, Dhaka

Member of many academic & administrative committees, SAU, Dhaka

18) Training Courses Attended

- Participated in the training program on “Use of Thana, Land and Soil Resource Utilization Guide” in GTI, Mymensingh, during March, 5-8, 1996
- Participated in the training program on “Sustainable Land Use through Soil and Crop Management in relation to Climate Change and Land Degradation” in Bangladesh Agricultural Research Council, Dhaka, during May, 5-6, 2010
- Participated in the training program on “Curriculum Development and Teaching-Learning Assessment” in SAU, Dhaka, during December, 17-21, 2013
- Participated in the training program on “Teaching- Learning, Curriculum and Quality Assurance for University Teachers” in GTI, Mymensingh, during September, 17-22, 2014
- Participated in the training program on “Quality Assurance in Higher Education Training Program in Malaysia” during November 9-20, 2015
- Participated in the training program on “Project management and information system” in University Grants Commission, Bangladesh, January 28-29, 2016
- Participated in the training program on “Financial management report” in University Grants Commission, Bangladesh, on 29-2-2016
- Participated in the training program on “Financial management report” in University Grants Commission, Bangladesh, on 1-3-2016
- Participated in the training program on “Building quality in higher education” in University Grants Commission, Bangladesh, on 23-3-2016
- Participated in the training program on “curriculum format” in University Grants Commission, Bangladesh, on 5-2-2017
- Participated in the training program on “Project Completion Report” in University Grants Commission, Bangladesh, on 30-6-2018
- Participated in the training program on “Development/Review of a Learning Outcome Based Curriculum” at Bangladesh Accreditation Council during March 1-2, 2020

- Participated in the training program on “External Quality Assessment Process” at Bangladesh Accreditation Council during March 1-2, 2020
- Participated in the training program on “BNQF, Accreditation Rules and Standards. 7 October, 2021

19) Experience as an External Peer Reviewer

SL No.	Description
1.	Participated as a Trainer in a Number of Workshop on Self-Assessment Process, Curriculum Development, Teaching-Learning, Guideline for SAR Writing at SAU, Dhaka
2.	Worked as an External Peer Reviewer (QA Expert Local) for SA Report of the Department of Physiology, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka under HEQEP funded by World Bank during 16-18 September, 2017
3.	Worked as an External Peer Reviewer (QA Expert Local) for SA Report of the department of Hematology, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka under HEQEP funded by World Bank during 19-21 September, 2017
4.	Worked as an External Peer Reviewer (QA Expert Local) for SA Report of the Department of Hepatology, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka under HEQEP funded by World Bank during 04-06 November, 2017
5.	Worked as an External Peer Reviewer (QA Expert Local) for SA Report of the department of Psychiatry, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka under HEQEP funded by World Bank during 04-06 February, 2018
6.	Worked as an External Peer Reviewer (QA Expert Local) for SA Report of the department Management Studies, Jahangirnagar University, Savar, Dhaka under HEQEP funded by World Bank during 18-20 February, 2018
7.	Worked as an External Peer Reviewer (QA Expert) for SA Report of the Department of Statistics, Begum Rokeya University, Rangpur under HEQEP funded by World Bank during 23-25 February, 2018
8.	Worked as an External Peer Reviewer (QA Expert) for SA Report of the Department of Political Science, Begum Rokeya University, Rangpur under HEQEP funded by World Bank during 26-28 February, 2018
9.	Worked as an External Peer Reviewer (QA Expert) for SA Report of the Department of English, Independent University, Bangladesh, under HEQEP funded by World Bank during 07-09 March, 2018
10.	Worked as an External Peer Reviewer (QA Expert) for SA Report of the Faculty of Agriculture, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh under HEQEP funded by World Bank during 23-25 September, 2018
11.	Involved as a member of teachers selection committee at SAU and PSTU

20) Professional Assignments

Worked as a Member Secretary in the Development of Outcome Based Undergraduate Curriculum of B. Sc. Ag. (Hons.), Bachelor of Business Administration (Agribusiness) and Bachelor of Agricultural Economics (Honor's) and MS Curriculum of 12 Departments, SAU during July, 2015-October, 2021

Worked as a Member in the Development of Undergraduate Soil Science Syllabus for B. Sc. Ag. (Hons.), of Khulna Agricultural University, during March, 2019

Worked as a Member in the development of Soil Science-1, Plant Nutrition and Fertilizer Management curriculum for diploma in Agriculture during February 2020

Worked as a Member in the development of Teachers Guide for Agricultural Science (Class Seven) Curriculum Implementation in National Curriculum and Textbook Board during 2012

Participated as a Member and Expert in Research Review workshop organized by BARC, BARI, SRIB

Worked as a MS, PhD Thesis Examiner of BAU, BSMRAU, HMDSTU

Reviewer, International Journal of Plant and Soil, Environmental Pollution, Journal of Bangladesh Agricultural University, the Agriculturist

Involved as Focal Point and President in Annual Performance Agreement Implementation at Sher-e-Bangla Agricultural University, Dhaka

21) Countries Visited

UK, Australia, Malaysia and India



Date: 17-12- 2024

Md. Asaduzzaman Khan