CURRICULUM VITAE

Name	*MD. KHAIRUL ALAM BHUIYAN*
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Father's name	Late Abdul Majid Bhuiyan
Mothers name	Feroza Begum
Mailing address	Senior Scientific Officer , Agronomy Division, Bangladesh Rice Research Institute,Gazipur-1701
Home district	Comilla
Nationality:	Bangladeshi
Religion	Islam
Marital status	Married
Children	Two boys
Date of birth	01-01-1970
Height	5’ 4”
Weight	69 Kg
Permanent address	Village-Alahabad, Post Office- Alahabad, PS –Debbidar, District- Comilla.

Education and training

Educational career

Name of the Examination	***Board/University***	***Year***	***Major subjects/courses/ Title***
Secondary school Certificate	Dhaka Board	1986	Bangla,English,Mathmatices, Physics,Chemistry, Biology
Higher Secondary Certificate	Dhaka Board	1989	Bangla,English,Mathmatices Physics,Chemistry, Biology
Bachelor of Science in Agriculture	Bangladesh Agricultural University	1993 ((Held in 1997)	Agronomy, Horticulture, Plant Pathology, Entomology, Soil Science, Biology, Genetics and Plant Breeding, Biochemistry, Statistics, Crop Botany, Agricultural Economics Rural Sociology Etc.
Master of Science in Agronomy	Bangabandhu Sheikh Mujibur Rahman Agricultural University	2001	Principles of Crop Production, Crop Physiology, Seed science, Vegetable Seed Technology, Weed Science, Cropping System, Cereal Crop Production, Irrigation Agronomy, Soil Fertility, Soil Plant Analysis, Design of Experiments.
Doctor of Philosophy (PhD.)	Bangladesh Agricultural University	2015	Effect of resource conservation technologies and weed management on nitrogen use efficiency, growth and yield of rice

TRAINING (In Country)

Organization	Year	Duration		Name of programme
		Mons.	Days	
BRRI	1999	02	-	Rice Production, Communication and Office Management.
BSMRAU	2000	-	15	Computer training course in MSTAT, IRRISTAT, & SPSS
BRRI	2000	-	15	Research Management Information System (Data capture)
BARD	2001	-	14	Computer application course on Word, MS Excel,MS power point and SPSS
BARD	2001	03	15	Foundation training on administrative and office management
BRRI	2003	-	02	Hybrid rice seed production training
BARC	2005	-	04	Management of problem soil
IRRI	2008	-	03	Participatory Variety Selection and Socio-economic Components in Experimental Sites
Australia-CIMMYT-RDRS	2011	-	07	Safe use of Herbicides and effective weed control
SRDI	2014	-	05	Fertilizer Analysis
BARC	2015	-	03	Fertilizer recommendation guide-2012

Training Abroad:

Country	Year	Duration		Name of programme
		Mos.	Days	
IRRI, Philippines	2003	-	12	Two-Week Rice Production training course
IRRI, Philippines	2004	-	05	Basic Experimental Designs and Data Analysis Using IRRISTAT

Workshop Abroad

Country	Year	Duration		Name of programme
		Mos.	Days	
IRRI, India	2012	-	05	STRASA planning and evaluation
IRRI, Nepal	2014	-	03	Technology adoption and dessimination

Significant contribution to agricultural development through agronomic and Weed Management Research:

- Contributed to Weed management Research for about 15 years.
- Tested and recommended about 29 chemical group of herbicide (approx. ≈ 180 brand) which is about 90% of rice herbicides (Weed control Efficiency is above 80%) now available in Bangladesh and farmers are now using these thchnologies
- Farmers are now adopting these cost effective technologies throughout the country. About two million rice lands make use of herbicide.
- Use of these technologies increasing sharply due to shortage of labor in the peak period of manual weeding. Manual weeding from one ha of land needed about 10000-14000 taka where herbicide + one hand weeding technology needed 5000-6000 taka. So adopting these technologies farmers can save about 70-80% weed control costs.
- Farmers are now saving billions of taka from weeding costs. Through better weed control crop loss decreased and improved fertilizer and water use efficiency, thus helped to obtain high rice crop yield.
- Involved an extensive applied research and basic work and take up some technologies regarding weed management in rice, including herbicide resistance weeds, weed seed bank, threshold level of different rice weeds, integrated weed management technology in different rice culture and ecosystem, mechanical weed control, chemical weed control, organic weed control etc.
- Led the weed research team of BRRI, Bangladesh, and worked in collaboration with renowned weed scientist (Dr. Devid Johnson, Dr. Charlie Riches and Dr. Marteen Mortimeer and Dr. Sudhanshu Singh from IRRI).
- As a rice agronomist contributed to develop scores of agronomic technology including nutrient management in saline areas, and Nutrient management in direct wet seeded rice.
- Recommended a complete weed management technology and resource conservation technology for direct weed seeded rice under AWD irrigation system.
- Authored or co-authored several publications and has presented research at national and international conference.

Experiences as working scientist

Achievement: Sixteen years research experience in agronomic field.

Working experience:

Title of positions	Organization	Duration
Scientific officer	Farm Management Division BRRI, Gazipur,	From 28th February, 1999 to 7th February,2001
Scientific officer	Agronomy Division, BRRI, Gazipur	From 8th February, 2001 to 15th July 2006
Senior Scientific officer	Agronomy Division, BRRI, Gazipur	From 16th July, 2006 to till date

Summary of working experience

Duration: 28th February, 1999 to till date

- Started as scientific officer of Farm management division and done farm management related research work and after that Worked as scientific officer of Agronomy division, BRRI then Senior Scientific Officer, Agronomy Division, BRRI.Gazipur
- During this period I have undertaken agronomic research program to increase the productivity of rice with reduction of cost of production. Weed management, Crop establishment, Time of planting of varieties and yield maximization were the priority areas where research programs were undertaken. On- farm trials of developed technologies were done for dissemination.
- To solve the weed problem in the farmer's field collaborative research program were undertaken in the farmer's field since 2001.
- The developed technologies were disseminated to the farming communities through distribution of leaflets, farmer's field days and workshops.
- Worked as project scientist of two projects named "Development of weed management strategies for lowland rice in Bangladesh" and "Promotion of cost-effective Weed management practice for lowland rice in Bangladesh" I worked as project scientist of these project at Comilla site, Bangladesh. The project was funded by DFID, UK and implemented in collaboration with NRI, UK and initiated in 2003 and completed in 2006. The research work was done in 4 Thanas involving huge number of farmers. Aim of these two project was promotion and dissemination of weed management technologies in the farmers field. Have

close linkage with GO (DAE),NGOs , and private organizations for dissemination of developed technologies.

- Worked as a project scientist of EC-IFAD funded project“Improved rice crop management for raising productivity in submergence-prone and salt affected rainfed lowlands in South-Asia” at Barisal and Patuakhali site from 2011-2014 regarding dessimination and adoption of suitable rice technologies.
- Involved in integrated weed management research in rice, evaluated new chemical suitable for weed control, Herbicide resistant weed, weed shifting, determination rate of herbicide for effective weed control in the farmers field.
- Disseminating and developing suitable weed management technology for southern part of Bangldesh(Pirojpur, gopalganj and Bagerhat district) under PGB-IADP project
- Obtained PhD from BAU regarding Weed Science and Resources Conservation technologies.

Research Project(s) Building and Execution:

Achievements: Three Research Projects Executed

Name of Research t(developed)	**Year**	**Implementatio ıs**	**Remarks**
1. Developing weed management strategies for rice based cropping system in Bangladesh.	2000-2003	Completed	Worked as a project scientist
2.Promotion of cost effective Weed management Practices for Lowland Rice in Bangladesh(BRRI-IRRI-NRI)	2003-2006	Completed	Worked as a project scientist
3. Improved rice crop ɛment for raising productivity in ˈgence-prone and salt affected lowlands in South-Asia”	2011-2013	Completed	Worked as co-PI of the project
4.Pirojpor-Gopalgonj- Bagerhat Agriculturai, integrated development project(GoB)	2013-Till	Will end 2017	Working as a project scientist

List of Publications

(a)Scientific journal

1. **Bhuiyan M.K.A**, GJU Ahmed**,** J.A. Begum and S.A. Islam. 2007. Bio-Efficacy of Pyrazosulfuron-ethyl 10 WP for weed management in transplanted rice(*Oryza sativa* L.).Intl. J. BioRes.3(1): 58-63
2. **Bhuiyan Md. Khairul Alam** and Gazi Jashim Uddin ahmed.2010. Performance of Mefenacet + Bensulfuron methyl 53% WP against weed suppression in transplanted paddy. Pak. J. Weed Sci. res. 16(2): 181-187
3. **Bhuiyan, M.KA,** G.J.U.Ahmed, A.J. Mridha, M.G.Ali, J.A.Begum and S.T.Hossain.2010. Performance of Oxadiargyl 400sc for weed control in Transplanted Rice. Bangladesh J. Weed Sci. 1(1) 57-63
4. **Bhuiyan, MKA,** GJU Ahmed , AJ Mridha and Jinnat Ara Begum .2009. Performance of weed management practices for different establishment method of rice (*Oryza sativa* L.) in dry season.Bangladesh Agronomy Journal.vol.12(1&2). 73-79
5. **Bhuiyan MKA,** AJ Mridha, GJU Ahmed, Jinnat Ara Beguma nd Rakiba Sultana. 2011.Performance of chemical weed control in direct wet seeded rice culture under two agro-ecological conditions of Bangladesh. Bangladesh J. Weed Sci. 2(1&2):1-8.
6. Mamun.M.A.A., R.Sultana,S.A. Islam, M.A. Badshah, **M.K.A. bhuiyan** and A.J.Mridha. 2011. Bio efficacy of bensulfuron methyl+ pretilachlor 6.6% gr against weed suppression in treanplanted rice. Bangladesh. Bangladesh J. Weed Sci. 2(1&2):9-13
7. Ahmed, G.J.U., A. J. Mridha**, M.K.A. Bhuiyan**, C.R. Riches and M. Mortimer 2003.Effect of different weed management systems on weed control, plant growth and grain yield of lowland rice. In proceedings of the nineteenth Asian- Pacific weed science society conference.17-21 March, Manila, Philippines.84-92P
8. Ahmed, G.J.U., **M.K.A. Bhuiyan**, C.R. Riches, M. Mortimer and D. Johnson, 2005.Farmers participatory studies of intregrated weed management systems for intensified lowland rice. In proceedings of the 20th Asian- Pacific weed science society conference.07-11Nov, Ho-Chi-Minh city, Vietnum.524-528P
9. G.J.U. Ahmed, **M.K.A. Bhuiyan** ,C.R. Riches and J. A. Begum.2007. Weed management practices in lowland rice for increasing productivity and farm incomes in rice cultivation. Intl. J. BioRes. 2(4):29-33

10. Mamun Md. Abdullah Al, Rakiba Shultana, **M.K.A. Bhuiyan**, A.J. Mridha and A. Mazid.2011. economic weed management options in winter rice. Pak. J. Weed Sci. Res. 17(4):323-331

11.**Bhuiyan M.K. A**., M. M. Haque, Q. A. Khaliq, J. A. Begum[2] and A.H.M.R. Mawlla 1999 Productivity and economics of grain legumes intercropped with maize.Bangladesh Agron. J. 9,(1&2) :35-42P

12.**Bhuiyan M.K.A**.,M.M. Haque, Q.A. Khaliq, A. Hamid and J.A. Begum, 2004. Light availability, Phenology, nodulation and growth of legumes intercropped with maize.The Agriculturist,vol.2,No. 1-10P

13. Chowdhury M.J.U., **M.K.A. Bhuiyan**, M.S.Islam and M.A.Wadud.2003.Effect of planting method and type of laborer on the productivity of rice and labor utilization. J.Sci.Tech.1:59-64P

14. Islam, M. S., **M. K. A. Bhuiyan** and M. J. U. Chowdhury 2004. Effect of younger seedling and planting density on the growth and yield of rice planted in system of rice intensification (SRI) method. Bangladesh journal of Agricultural Sciences.Vol.31, No. 1: 105-110P

15. Islam, M.Sh., M.A. Mazid, M.S.Alam, N. Ferdous and **M.K.A. Bhuiyan**.2003. Bio-physical and Socio-Economic Scenario of the High Barind Farms: A Study of Farmers' Perceptions with Emphasis on Rice.J Agric Rur Dev 1(1), 69-76P

16.Rashid M.M., M. Mofazzel Hossain, M.Z. Alam, M. Ibrahim and **MKA Bhuiyan**. 2003.Seasonal aboundance and control of spiraling whitefly, *Aleurodicus disperses* russel on guava.Pakistan journal of biological science 6(24):2050-2053P

17. Ferdous A.K.M., Q. A. Khaliq, M. Moynul Haque, A.J.M. Sirajul Karim and **MKA Bhuiyan**,2004. Effect of nitrogen fertilizer on growth, nitrogen and phosphorus uptake and yield in edible podded pea. Bangladesh Agronomy journal.10(1&2): 133-140P

18. Naher S., J. A. Begum and M. K. A.Bhuiyan and **M. K. A. Bhuiyan** .2007.Integrated control of seedling mortality of bush bean caused by *Rhizoctonia Solani***.**Intl. J.BioRes. 3(1):50-57

19.Naher S., J. A. Begum and M. K. A. Bhuiyan and **M. K. A**. **Bhuiyan**.2007.Integrated control of seedling mortality of bush bean (*phaseolus vulgaris*) caused by S*clerotium Rolfsii*.Intl. J. BioRes.3(2):54-60

20**.** Begum J.A., Khurshed Alam Bhuiyan, Ismail Hossain Mian, Ranjit Kundu and **MKA Bhuiyan.**2005.Effect of sources of nutrients on growth and sporulation of *Trichoderma harzianum.*Bangladesh J. Agril. Res. 30(4): 651-659

21. Mridha. J.A., K.M. Iftekharuddaula, M.S. Zahan, **M.K.A. Bhuiyan** and A. Bagi. 2010. Submergence tolerant rice varieties and their management option for Northwestern region of Bangladesh. Bangladesh Agronomy journal.13(1&2): 111-116.

22. Islam S.A., M.A. Mannan, **M.K.A. Bhuiyan.,** F. Khatun and M.A.J. Mridha. 2010. Influnce of late planting on growth and yield of Transplanted Aman rice. Bangladesh Agronomy journal.13(1&2): 111-116.

23. Mannan M.A., M.S.U. Bhuiyan, M.I.M. Akhand, **M.K.A. Bhuiyan**, and M.M Rana. 2012. Performance of photoperiod sensitive modern aeromatic rice varieties as influenced by planting dates in boro season. Agronomy journal 15(2): 29-36

24. Rana M.M. , M.A.A. Mamun, M.I.M. Akhand, **M.K.A. Bhuiyan,** and M.A.J. Mridha. 2012. Weed control in transplanted rice: Efficacy of Fenoxaprop-P-Ethyl. Bangladesh J. Weed Science. 3(1& 2): 53-58.

25. **Bhuiyan MKA**, A.J.Mridha, GJU Ahmed, SA Islam and MAA Mamun. 2014. Effect of rice bran application for eco-friendly weed control, growth and yield of lowland rice in Bangladesh. International journal of Agronomy and Agricultural Research.Vol.5(3),P. 40-44

26. **Bhuiyan MKA,** SA Islam, R Sultana, MM Rana, MM Mahboob and L Nahar 2013-2014. Competitive ability of exotic rice cultivars against weed suppression in wet season. Bangladesh J. Weed ScienceVol.3&4,P. 69-76

b. List of Books (All books are in relation to weed management in rice Cultivation)

1. Ahmed GJU, **M.K.A. Bhuiyan**,C.R. Riches, M. Mortimer.2006.Weed Identification and Management in rice.Pub. No. 167.First edition. Published by BRRI, Gazipur

2. Mustafi BAA, MA Salam, GJU Ahmed, DNR Paul,M Hossain……and MKA Bhuiyan 2007.Adhunik Dhaner Chas. Pub. No. 05. 13th edition, Published by BRRI, Gazipur

3. Ahmed GJU, **M.K.A. Bhuiyan.**2008.Dhan Chaser Samossh a(Weed part). Pub. No.08.Third edition. Published by BRRI-IRRI collaboration, Gazipur

c.List of Monographs (Four Monographs are in relation to weed management)

1.Ahmed, G.J.U, **M. K. A Bhuiyan** , M.A Badsha, , and ,2002. Research Achievement of weed control project "Developing Weed Management Strategies For Rice Based Cropping System in Bangladesh". Comilla and Gazipur site,NRI-BRRI-IRRI.

2.Ahmed G.J.U., J.C. Biswas, B.C. Roy and **M.K.A. Bhuiyan**,2005.System of Rice intensication(SRI): Its problems and prospects in rice production.Agronomy Division, BRRI.

3. Ahmed G.J.U., M.A.Majid,M.A.Jabber, **M. K. A Bhuiyan**…2002 , Final technical report on "Developing Weed Management Strategies for Rice- Based Cropping Systems in Bangladesh" NRI, Uk.

4. Ahmed G.J.U., M.A.Majid,M.A.Jabber, **M. K. A Bhuiyan**…2005.Promotion of Cost effective Weed Management Practices for Lowland Rice In Bangladesh." NRI, Uk.

5. Ahmed G.J.U, **M. K. A Bhuiyan and MRA sarker.** Weed Management Research and Technology Development at BRRI(1974-2004).Agronomy Division, BRRI, Gazipur.

d. List of bulletins (Four bulletins are in relation to weed management)

1.Mazid M.A., M.Sh., Islam, **M. K. A Bhuiyan**., Nilufa Ferdous, S.K. Chakrabarty, and Dilruba Begum.2000.Stakeholder Analysis Report High Barind Area, Rajshahi.BRRI-IRRI.

2.Riches, C.R., G.J.U Ahmed,., M.A. Badsha, and **M.K.A**. **Bhuiyan,** (2002) Herbicide Adoption in Comilla District, Bangladesh.Working paper, BRRI, Gazipur; NRI, Chatham, UK.

3.Ahmed, G.J.U, **M. K. A Bhuiyan** , M.A Badsha, A. Latif, C.R Riches., M. Mortimar.2002. "Nibir Dhan Chaese Karjakorivabha Agacha Daman" NRI-BRRI-IRRI.

4.Ahmed, G.J.U, **M. K. A Bhuiyan** , M.A Badsha, A. Latif, C.R Riches., M. Mortimar.2002. "Dhan Kheta Agacha Daman" NRI-BRRI-IRRI.

5.Ahmed, G.J.U, M.A. Jabbar, M.G.Ali and **M. K. A Bhuiyan**, 2003. "Chara Nikhapan Paddutita Dhan Chas". BRRI, Gazipur.

e. List of workshop proceedings (proceedings are in relation to weed management)

1.Ahmed GJU, **M.K.A. Bhuiyan**,C.R. Riches, M. Mortimer and D. Johnson, 2005.Farmer's participatory studies of integrated weed management systems for intensified lowland rice.

In proceeding of the 8th biennial agronomy convention. Shere-e- Bangla Agricultural University, Dhaka. 26th May 2005.

2. Ahmed GJU, **M.K.A. Bhuiyan**, A. J. Mridha, M.S. Hasan, M.A. Badshsh and M.A.Latif 2005. Weed Management strategies for rice based cropping system in Bangladesh. In proceeding of the workshop on Planning for dissemination of effective and economic weed management system for lowland rice in Bangladesh .Comilla ,14th March

f. Popular Article:

1. Ahmed GJU and **M.K.A. Bhuiyan**, 2005. Ropa Dhane Karja kor Agacha Domon. Dhan Gubeshana Samachar.1st edition. Ashar-Kartik. 1412.

2. **MKA Bhuiyan.2009.** Aman Dhaner Agacha domon.The daily Gugantar. 1st October, Thusday, 2009

g. Abstract of scientific papers

1. **Bhuiyan MKA**, MAJ Mridha, SA Islam and GJU Ahmed.2010.Competitive ability of Rice cultivers against weed suppression in wet seeded boro rice. Abstract In Int. conference on Crop production under changing climate in Bangladesh: Agronomic Options. 6-7 october, BARC, Farmgate, Dhaka. p- 24

2. M. A. A. Mamun[1], R. Shultana, S. A. Islam, M. A. Badshah, **M. K. A. Bhuiyan** and A. J. Mridha.2010.Abstract submitted for WSSB annual conference held at SAU, Dhaka., 01 January, 2011

3. S A Islam, M A A Mamun, **M K A Bhuiyan**, R Shultana and M A J Mridha. 2010. Evaluation of Bispyribac-sodium for Weed Control in Transplanted Rice. Abstract submitted for WSSB annual conference held at SAU, Dhaka. 01 January, 2011

4. MAA Mamun, R. Shultana, MKA Bhuiyan, L. Nahar and MAJ Mridha 2015. Impact of herbicide application on weed growth and community composition in a double rice cropping pattern.Abstract in 5th conference of weed science society of Bangladesh, 16th May, BARC, Farmgate, Dhaka.P- 68

5. R. Shultana, MAA Mamun, MKA Bhuiyan, L. Nahar and MAJ Mridha Study on weed seed bank dynamics in rice fellow-fellow and rice fellow-rice cropping pattern. Abstract in 5th conference of weed science society of Bangladesh, 16th May, BARC, Farmgate, Dhaka.P- 68.

Member of the following society

i) Life Member of Agronomy Society
ii) Member of Phytopathological society
iii) Life Member of WSSB
iv) Member of Bangladesh Plant breeding Society.
v) Member of Krishibid Institute