

Curriculum Vitae

MD. ABUBAKAR SIDDIQUE

Senior Scientific Officer (Rice Scientist)
Genetic Resources and Seed Division
Bangladesh Rice Research Institute (BRRI)
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PARENTAL STATUS

Name of Father: Md. Altaf Hossain; Profession-Teacher,
Name of Mother: Mst. Afsona Begum; Profession-Housewife
Village: Baishtabak; Upazila: Barguna Sadar; District: Barguna; Bangladesh

DATE OF BIRTH

1st January, 1984

MARITAL STATUS

Married

CITIZENSHIP

Bangladeshi (by birth)

EDUCATIONAL BACKGROUND (IN REVERSE CHRONOLOGY)

Degree	Course Duration	Class/ Division	University/ Board	Years of Passing	Remarks
Master of Science in Agronomy	2 years	A (First class) (GPA 3.929 out of 4.0)	Bangladesh Agricultural University, Mymensingh	2008	Thesis title: Effect of plant spacing and nitrogen level on the yield performance of transplant Aman rice cv. Surjomoni
Bachelor of Science in Agriculture	4 years	A (First class) (GPA 3.99 out of 4.0))	Patuakhali Science & Technology University, Dumki, Patuakhali	2004 (Held in 2006)	First class first, Awarded University Gold Medal
HSC (Science)	2 years	First Division (68.3% marks)	Jessore	2000	
SSC (Science)	10 years	First Division (78.4% marks)	Jessore	1998	

*Please see APPENDIX-A for Subjects offered in the Examinations

FIELD OF SPECIALIZATION

Rice Variety Improvement, Rice Genetic Resources Conservation & Management and Seed Technology

LIST OF WRITTEN WORK

- Please see **APPENDIX-B**

AWARD RECEIVED

- Awarded the Young Rice Scientist Award in 4th International Rice Congress-2014 held in Bangkok, Thailand during 27 October to 1st November 2014.
- Awarded the University Gold Medal in 2010 for securing the best result (1st) in the B.Sc.Ag (Hons.) examination (2006) in the Faculty of Agriculture, Patuakhali Science & Technology University.
- Awarded the Director Generals' Award for first position in four month duration 21st foundation training course for NARS Scientists at BARD, Comilla, Bangladesh.

RESEARCH INTEREST

- Rice Breeding
- Marker assisted Breeding
- Breeding for salt, heat and drought tolerant by using molecular marker
- Breeding for disease and insect resistant by using molecular marker

PROFESSIONAL EXPERIENCE/CURRENT JOB

Position	Organization	Length of service		Main Job Description	Remarks
		From	To		
Senior Scientific Officer	BRRRI, Gazipur	15.12.2014	till date	Production and distribution of breeder seed; Maintenance of BRRRI developed and released varieties; Collection, characterization and documentation of rice genetic resources; Seed technology research; Technology transfer, Research management like Programming, execution, monitoring, evaluation and coordination of various activities related to rice genetic resources, Breeder seed production and seed technology through different divisions of BRRRI and part- time trainer at the institute, other GO, NGO and PS organizations.	Posted at GRSD, BRRRI, Gazipur
Scientific Officer	BRRRI, Gazipur	12.11.2007	14.12.2014	do	do

BRRRI= Bangladesh Rice Research Institute, GRSD=Genetic Resources and Seed Division

PROFESSIONAL TRAINING/WORKSHOP/SEMINAR OBTAINED

Local Training

- Participatory Plant Breeding held in BJRI during 22-24 July 2014
- Rice production, Communication and Office Management held in BRRRI during 12-17 April 2014
- Use of Fertilizer Recommendation Guide-2012 at BARC during 30 March to 1st April 2014
- Experimental Design, Layout and Statistical Analysis at BRRRI during 22-24 December 2013
- Gene Cloning and Rice Transformation at BRRRI during 15-24 April 2013
- Integrated Rice production Technology at BRRRI during 19-24 January 2013
- Participatory training on “On farm Research Methodology” at BARI during 19-24 May 2012
- Genetic Theory of Hybrid Rice Breeding at BRRRI during 25 April to 8th May 2014
- Foundation Training Course for NARS Scientists (Batch-21) at BARD during 19 September 2010 to 6th January 2011
- GSR-Hybrid rice Seed production training course at BRRRI during 23-25 February 2010
- Cereal Seed Processing and Preservation at BADC during 21-22 June 2009
- Research Methodology at GTI during 25 May to 7th June 2009
- Training on Biometry at BRRRI during 24 April 2009
- National Biosafety at BCDM, Gazipur during 21-30 November 2008
- 1-Month Rice Production Training at BRRRI during 27 July to 25 August 2008
- Breeder Seed Production and Preservation of Rice at BRRRI during 14-16 June 2008
- Hybrid Rice Seed Production Technology at BRRRI during 6-14 April 2008

Foreign Training

- International Training Workshop on Germplasm Management System (GMS) in Asia at RDA, Suwon, Korea during 21-28 May 2013
- Regional Training Programme on Quality Seed Production Technology of Rice and Vegetables at Seed certification and plant protection centre, Sri Lanka during 02-13 December 2012
- Seminar on Hybrid Rice Planting and Extension for Developing Countries at Yuan LongPing High Tech Agriculture Co. Ltd. Changsha, Hunan, China during 13 July to 2nd August 2011

COMPUTER LITERACY

- Skilled on hardware fundamentals, Microsoft word, Microsoft excel, data management and data analysis using computer based software packages like SPSS 16, Genstat 5.5, Powermarker 3.0, Ntsys 2.0 etc., Microsoft power point, and adobe Photoshop.

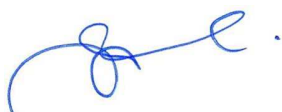
INVOLVEMENT IN PROFESSIONAL ASSOCIATION

Association name	Nature of membership	Year of registration
BRRRI Scientist Association	General Member	2007
Plant Breeding and Genetics Society of Bangladesh	Life Member	2008
Weed Science Society of Bangladesh	General Member	2008
Bangladesh Society of Agronomy	General Member	2010
Bangladesh Society of Seed Technology	Life Member	2010
Seed Science Society of Bangladesh	Life Member	2012
Bangladesh Association for the Advancement of Science	Life Member	2014

Persons to whom a reference may be made

01. **Dr. Md. Khairul Bashar**, Country Manager, HarvestPlus, International Centre for Tropical Agriculture (CIAT) -Bangladesh. Email: k.bashar@cgiar.org, mk.bashar@irri.org
02. **Dr. Mohammad Khalequzzaman**, Chief Scientific Officer and Head, Genetic Resources and Seed Division, Bangladesh Rice Research Institute, Gazipur-1701.

E mail: zamanmk64 @ yahoo.co.uk



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Signature of the applicant

APPENDIX-A FOR SUBJECTS OFFERED IN THE EXAMINATIONS

Name of the Examinations	Subjects offered
Secondary School Certificate (S.S.C.)	Bengali, English, General Mathematics, Geography, General Science (1&2), Agriculture, Biology, and Social Science
Higher Secondary Certificate (H.S.C.)	Bengali, English , Physics, Chemistry, Higher Mathematics and Biology
Bachelor of Science in Agriculture (Hons.)	<p>First year (Level-1)</p> <p>Semester-1:</p> <p>ACM 101- Physical and Analytical Chemistry (Theory and practical), AES 101- Fundamentals of Micro and Macro Economics (Theory), AGE 101- Agricultural Implements and Machinery (Theory and practical), ANS 101- Livestock Production and Management (Theory and practical), HRT 101- Principles and Practices of Horticulture (Theory and practical), SSC 101- Fundamentals of Soil Science, AGB 101- Botany of Field Crops (Theory and practical)</p> <p>Semester-2:</p> <p>ACM 201- Chemistry of Biomolecules (Theory and practical), ACM 102- Organic Chemistry (Theory and practical), SSC 102- Introduction to Soil Fertility and Soil Microbiology (Theory and practical), ANS 102- Poultry Production and Management (Theory and practical), ENT 201- Basic Entomology (Theory and practical), ARD 201- Fundamentals of Agricultural Extension (Theory and practical)</p>

	<p>Second year (Level-2)</p> <p>Semester-3:</p> <p>ACM 202- Metabolism of Bio- molecules (Theory and practical), AGB 201- Plant anatomy and Embryology (Theory and practical), AGR 201- Seed Science and Technology (Theory and practical), STT 201- Fundamentals of Statistics (Theory and practical), HRT 201- Ornamental Horticulture (Theory and practical), PLP 201- Basic Mycology (Theory and practical), SSC 201- Soli Survey and Conservation (Theory and practical), ARD 201- Communication and Teaching Methods (Theory and practical), LCM 201- Communicative English Language (Theory)</p> <p>Semester-4:</p> <p>AGR 202- Weed Science (Theory and practical), ARD 202- Extension Programme Development (Theory and practical), ENT 202- Systematic Entomology (Theory and practical), PLP 202- Acquaintance with Plan Pathogen (Theory and practical), STT 202- Experimental Design (Theory and practical),</p> <p>SFE 201- Principle of Agroforestry (Theory and practical), GPB 202- Cytology (Theory and practical)</p>
	<p>Third year (Level-3)</p> <p>Semester-5:</p> <p>SSC 301- Soil Physics & Soil Chemistry (Theory and practical), AGB 301- Principles of Plant Physiology (Theory), ACM 301- Chemistry of Fertilizer & Nutrition (Theory and practical), GPB 301- Genetics (Theory and practical), ARD 301- Rural Development (Theory and practical), HRT 301- Spices, Medicinal Plants and Plantation Crops (Theory and practical), AGR 102- Principles & Practices of Agronomy (Theory and practical), ENT 301- Insect Physiology & Nutrition (Theory and practical)</p> <p>Semester-6:</p> <p>ACM 302- Nuclear Chemistry and Spectrophotometry (Theory and practical), AES 103- Principle of Sociology (Theory), AGE 302- Irrigation, Drying and Engineering Materials (Theory), AGR 302- Field Crop Production-1 (Theory and practical), BCM 301 Food Biochemistry and Nutrition (Theory), ENT 302- Ecology and Pest Management (Theory and practical), GPB 302- Cytogenetics (Theory and practical), HRT 302- Horticultural Seed Technology (Theory), PLP 301- Principles of Plant Pathology (Theory and practical)</p>

	<p>Fourth year (Level-4)</p> <p>Semester-7:</p> <p>AGB 414- Applied Plant Physiology (Theory and practical), ARD 414- Training Education and Office Management (Theory and practical), GPB 424- Plant Breeding (Theory and practical), PLP 414- Plant disease-I (Theory and practical), HRT 415 - Vegetable Production (Theory and practical), AGR 416- Field Crop Production-2 (Theory and practical), SSC 415- Soil Fertility and Management (Theory and practical), ACM 425- Chemistry & Technology of Agricultural Products (Theory)</p> <p>Semester-8:</p> <p>HRT 426- Fruit Production (Theory and practical), PLP 425- Plant disease-II (Theory and practical), ENT 425- Economic Entomology (Theory and practical), AGR 427- Farms and Farming (Theory and practical), BTH 421- Biotechnology (Theory and practical), LCM 421- Computer Fundamentals (Theory), AGB 425- Plant Ecology (Theory and practical), SSC 426- Biological Nitrogen Fixation and Soil Fertility Management (Theory and practical), ENS 421- Environmental Science (Theory)</p>
<p>Master's (M. S.) in Agronomy</p>	<p>January-June semester, 2007 (First semester)</p> <p>Agron. 505: Soil Fertility Management in Crop Production</p> <p>Agron. 506: Water Management in Crop Production</p> <p>Agron. 507: Agronomic Research Methodology</p> <p>Agron. 508: Stress Agronomy</p> <p>Agron. 511: Agricultural Systems</p> <p>Agron. 512: Fodder Production and Pasture Management</p> <p>July-December Semester, 2007 (Second semester)</p> <p>Agron. 501: Advanced Crop Husbandry</p> <p>Agron. 502: Crop Yield Processes</p> <p>Agron. 503: Seed Science and Technology</p> <p>Agron. 504: Weed Management</p> <p>Agron. 513: Cropping Systems</p> <p>Agron. 515: Production and Post Harvest Management of Minor Crops</p> <p>January-June Semester, 2008 (Third semester)</p> <p>Thesis title: Effect of plant spacing and nitrogen level on the yield performance of transplant Aman rice cv. Surjomoni</p>

APPENDIX-B: WRITTEN WORK

LIST OF ALL PUBLICATIONS (32)

(a) Scientific Journals (19)

As Principal author (6)

1. **M A Siddique**, N Islam, H Begum, A Bhuiya, and M A A Mamun. 2009. Effect of plant spacing and nitrogen level on the yield performance of T. Aman Rice. *Eco-friendly Agril. J.* 2 (6): 637-640
2. **M A Siddique**, ESMH Rashid, M Khalequzzaman, M Z Islam, M S Ahmed and M H K Baktiar. 2010. Genetic diversity of local rainfed rice (*Oryza Sativa* L.). *Bangladesh J. Pl. Breed. Genet.*, 23(2): 41-46
3. **M A Siddique**, M Z Islam, M Khalequzzaman and M S Ahmed. 2011. Genetic diversity in rice (*Oryza Sativa* L.) Landraces of hilly areas in Bangladesh. *Bangladesh J. Pl. Breed. Genet.*, 24(2): 25-30
4. **M A Siddique**, M Z Islam, M Khalequzzaman and M H K Baktiar. 2012. Seed Dormancy of some modern Boro and Aus Rice varieties of Bangladesh. *Seed Tech. J.* 3: 18-21
5. **M A Siddique**, M Khalequzzaman, M Z Islam, M S Ahmed and ESMH Rashid. 2013. Genetic diversity in local Boro rice (*Oryza Sativa* L.) genotypes of Bangladesh. *Bangladesh J. Pl. Breed. Genet.*, 26(1): 19-24
6. **M A Siddique**, N Islam, MZ Islam, SMM Islam and J Hussain. 2014. Effect of N level on growth and yield of T. Aman Rice CV. Surjomoni. *Int. J. Sustain. Crop Prod.* 9 (2): 33-37

As co-author (13)

7. H Begum, M Khatun, **M A Siddique**, A Akter and M K Hossain. 2009. Influence of Different Concentration of Surfactants on Plant Regeneration from Cotyledons of *Corchorus capsularis* and *Corchorus olitorius*. *Eco-friendly Agril. J.* 2 (4): 404-503
8. M Z Islam, H Begum, **M A Siddique**, A Bhuiya and M M R Dewan. 2009. A Study on wheat seed quality in different storage containers. *Eco-friendly Agril. J.* 2 (12): 1033-1037

9. Armin Bhuiya, M S Hossain, S R Bhuiyan, **M A Siddique** and M Z Islam. 2010. Isolation and characterization of maintainers and restorers from inter sub-specific (indica × japonica) derivative lines of rice. *Eco-friendly Agril. J.3 (1): 38-44*
10. S Islam, S Mitra, **M A Siddique**, M K Khatun and M A Siddique.2010. Effects of different Planting Time and Irrigation on Growth and Yield of Garlic (*Allium sativum* L.). *The Agriculturists J. 8(1): 57-62*
11. MAA Mamun, R Shultana, **M A Siddique**, MS Zahan and S Pramanik.2010. Impact of oxadiazon and pyrazosufuron-ethyl on rice and associated weeds in dryseason rice cultivation. *Pak. J. Weed Sci. Res. 16(3): 309-319*
12. M Z Islam, M Khalequzzaman, **M A Siddique**, M S Ahmed and M H K Baktiar.2011. Seed Dormancy of modern Aman Rice varieties of Bangladesh.*Seed Tech.J(1): 52-56*
13. S Banik, MZ Islam, MA Haque, **M A Siddique**, A Mallik and M A Siddiquee. 2012. Physico-chemical Properties based genetic diversity of T. Aman Rice genotypes. *Eco-friendly Agril. J.5 (07): 69-72*
14. MHK Baktiar, MA Samad, M Khalequzzaman, N Sharma and **M A Siddique**. 2013. Morphological characterization of local Aus rice germplasm (*Oryza sativa* L.). *Eco-friendly Agril. J. 6 (10): 238-242*
15. MHK Baktiar, **M A Siddique**, M Khalequzzaman, A Bhuiya and MZ Islam. 2013. Effect of maturity period and harvesting time on quality and yield in breeder seed of rice (*Oryza sativa* L.). *Eco-friendly Agril. J. 6 (11): 249-252*
16. MHK Baktiar, **M A Siddique**, A Bhuiya, ESMH Rashid and MS Ahmed. 2013. Optimization of seedling number for breeder seed production of rice (*Oryza sativa* L.). *Eco-friendly Agril. J. 6 (12): 253-256*
17. MZ Islam, **M A Siddique**, ESMH Rashid, MS Ahmed and M Khalequzzaman. 2014. Genetic Diversity in Sadajira Rice (*Oryza sativa* L.) Germplasm. *The Agriculturists J. 12(1): 26-32*
18. MAI Khan, MR Bhuiyan, MS Hossain, PP Sen, A Ara, MA Siddique and MA Ali. 2014. Neck blast disease influences grain yield and quality traits of aromatic rice. *C.R. Biologies 337: 635-641*
19. MJ Hasan, U Kulsum, NMF Rahman, T Farhat and MA Siddique. 2015. Hybrid Rice Parental Lines Development Utilizing Different Rice Germplasms. *Advances in Environmental Biology 9 (2): 24-29*

(b) Books/ Monographs/ Bulletins (4):

(i) Book (02):

As Principal author: Nil

As co- author (02):

1. L. Rahman, MK Bashar, MAK Mian, **MA Siddique**, ESMH Rashid, N Haque and MS Islam. 2010. Plant Varieties of Bangladesh: Morphological and Molecular Characterization. Published by Seed Wing, Ministry of Agriculture, Government of the People's Republic of Bangladesh, Volume-4, Part-Rice, 1-235pp.
2. MK Bashar, M Z Islam , **M A Siddique** & M Khalequzzaman. 2011. Passport Data of Rice Germplasm collected from hilly, coastal, haor and other areas of Bangladesh. ed. MK Bashar. Published by Genetic Resources and Seed Division, Bangladesh Rice Research Institute Gazipur- 1701. 40p.

Bulletins(02):

As Principal author (01):

1. **M A Siddique**, M Khalequzzaman, ESMH Rashid, M Z Islam & M K Bashar. 2011. Bulletin on "BRRI dhan49: Quality seed production and preservation (in Bengali)". Published by Genetic Resources and Seed Division, Bangladesh Rice Research Institute, Gazipur- 1701.

As co-author (01) :

2. M K Bashar, **M A Siddique**, M Khalequzzaman, M Z Islam, ESMH Rashid & MHK Baktiar. 2011. Bulletin on "Collection of Rice Germplasm from hilly, coastal and haor areas of Bangladesh (in Bengali)". Published by Genetic Resources and Seed Division, Bangladesh Rice Research Institute Gazipur- 1701.

(c) Seminar/ Workshop/ Symposium /Proceedings/ Abstract/ Popular article (9):

As Principal author (02):

1. **MA Siddique**, N Islam, MZ Islam and SMM Islam. 2011. Effect of N Level on Growth and Yield of T. Aman Rice. Abstract in Souvenir of 10th conference of Bangladesh Society of Agronomy held at BARI during 8th October, 2011.
2. **MA Siddique**, M Khalequzzaman, MM Islam and K Fatema. 2014. Molecular Characterization and Genetic Diversity in Geographical Indication (GI) Rice (*Oryza saiva* L.) cultivars of Bangladesh using SSR Markers. Abstract in Souvenir of 9th biennial conference of Plant Breeding and Genetics Society of Bangladesh held at KIB and BARC during 25-26 October, 2014. p.56

As co- author (7):

2. M Khalequzzaman, **M A Siddique**, MS Ali and MS Islam. 2012. Rice Research and Achievement in Bangladesh: BRRI Perspective. Paper presented on 3rd Agro Bangladesh Fair during 04-06 October 2012 at Bangabandhu International Conference Centre, Dhaka. Organized by MoA and MoF.
- 3 M K Bashar, M Khalequzzaman, **M A Siddique** and Md.Shahjahan Ali. 2012. Quality assurance in different classes of seed: Bangladesh perspective. Paper presented in National seed fair & seminar, 2012 at Shere-e Bangla University during 11-13 July, 2012. 23-32pp.
4. M Khalequzzaman, **M A Siddique** and M K Bashar. 2012. Rice Genetic Resources Conservation and Utilization in Bangladesh. 2012. Paper presented in National Workshop on Plant Genetic Resources for Nutritional Food Security held at BARC, Dhaka, 18-19 May, 2012. 50-60pp.
5. MK Bashar, **M A Siddique and** M Khalequzzaman. 2012. Rice Genetic Resources Conservation and Utilization in Bangladesh. Abstract in Souvenir of 3rd International Seed Conference and Fair during 08-10 February 2012 at Bangladesh Agricultural University, Mymensingh. Organized by MoA and Seed Science Society of Bangladesh. p.54.
6. MK Bashar, **M A Siddique**, ESMH Rashid and M A Bari. 2010. Quality Seed Delivery through Rice Seed Network for Sustaining Food Security in Bangladesh. Paper presented on celebration of 50th anniversary of IRRI during 13-14 July, 2010 at Bangabandhu International Conference Centre, Dhaka. Organized by MoA and IRRI.
7. M Khalequzzaman, M Z Islam, **M A Siddique**, MHK Baktiar, MS Ahmed and JK Biswas. 2014. Breeder Seed Production and Distribution System in BRRI. Paper in Souvenir of Annual General Meeting and Seminar-2014 during August 30, 2014 at Bangabandhu International Conference Centre, Dhaka. Organized by Bangladesh Seed Association.
8. M Khalequzzaman, **MA Siddique**, MM Islam and K Fatema. 2014. Molecular Characterization and Genetic Diversity in T. Aman Rice (*Oryza sativa* L.) landraces of Bangladesh using SSR Markers. Abstract in Souvenir of 9th biennial conference of Plant Breeding and Genetics Society of Bangladesh held at KIB and BARC during 25-26 October, 2014. p.57
9. M Khalequzzaman, **MA Siddique**, KM Iftakharuddaula, MZ Islam and MK Bashar. 2014. Biodiversity in Rice of Bangladesh. Abstract in Souvenir of 9th biennial conference of Plant Breeding and Genetics Society of Bangladesh held at KIB and BARC during 25-26 October, 2014.p.36