

# Curriculum Vitae

MD. ADIL  
 Scientific Officer (Rice Breeder)  
 Plant Breeding Division  
 Bangladesh Rice Research Institute (BRRI)  
 Regional Station, Comilla, BANGLADESH  
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## PARENTAL STATUS

Name of Father: Md. Shahe Alam; Profession-Government Employee (Retired)  
 Name of Mother: Rahima Begum; Profession-Housewife  
 Village: Bapta; Upazila: Bhola Sadar; District: Bhola; **Bangladesh**

## DATE OF BIRTH & AGE

December 23, 1983 and 31 years 05 Months 11 Days at 4 June, 2015

## MARITAL STATUS

Spouse name: Fatama Jarin, MS in Genetics and Plant Breeding  
 No. of children: one, Children Name: Aysa Abida

## CITIZENSHIP

Bangladeshi (by birth)

## EDUCATIONAL BACKGROUND (IN REVERSE CHRONOLOGY)

Name of School / College/ University	Years attended		Name of the exams. with subjects offered*	Division /CGPA obtained	% of Marks obtained	Year of passing
	From	To				
Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh	2007	2009	Master of Science in Genetics and Plant Breeding	<b>CGPA 4.00 out of 4.00 (Superior)</b>	90%	2009
Patuakhali Science and Technology University (PSTU), Patuakhali, Bangladesh	2000	2004	Bachelor of Science in Agriculture (Honours) [B.Sc.Ag. (Hons.)]	<b>CGPA 3.88 in out of 4.00 (Outstanding)</b>	77.6%	2004 (Held in 2006)
Naziur Rahman College, Bhola, Bangladesh	1998	2000	Higher Secondary Certificate (H.S.C) (Science Group)	<b>First Division</b>	74.5 %	2000
Bhola Govt. Secondary School, Bhola, Bangladesh	1988	1998	Secondary School Certificate (S.S.C) (Science Group)	<b>First Division (Star Marks)</b>	79.2%	1998

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

## LIST OF PUBLICATIONS / WRITTEN WORKS

- Please see APPENDIX-B

## FELLOWSHIP /SCHOLARSHIP AWARDED

- Enjoyed the “National Science and Information & Communication Technology (NSICT)” Fellowship offered by the Ministry of Science and Information & Communication Technology, Government of the People’s Republic of Bangladesh for MS research work during July, 2007 to December, 2007.
- Obtained outstanding academic achievements and the well deserved scholarship is awarded for 2003-2004 and 2004-2005 funded by Bangladesh Scholarship Council and The Nippon Foundation, Japan.
- Achieved “Merit” Scholarship offered by Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU) at graduate level.

## RESEARCH INTEREST

- Rice Breeding for stress tolerant (salt tolerant, drought tolerant, lodging tolerant and disease resistant) with high yield potential
- Rice breeding for short duration and Premium quality
- True breeding for rice
- Biotechnology (tissue culture, Marker assisted breeding, QTL mapping, Bioinformatics)

## WORK AND /OR RESEARCH EXPERIENCE

### Present position with period of service

- Working as a scientific officer in plant Breeding Division, Bangladesh Rice Research Institute (BRRI), Regional Station, Comilla, Bangladesh.
- Date of joining in BRRI: 06 May, 2010 and Working experiences: 5 years above
- Work descriptions (Please see APPENDIX-C)

## LANGUAGE PROFICIENCY

- Have better reading, listening, writing and speaking skills in English
- Completed the compulsory course LCM-201: **Communicative English Language** with Grade ‘A’, GPA 3.50 out of 4.00 in partial fulfillment of the requirements for the degree of B.Sc.Ag. (Hons.) approved by the Patuakhali Science and Technology University.
- The medium of instruction was English in both B.Sc.Ag (Hons.) and MS level

## COMPUTER LITERACY

- Skilled on hardware fundamentals, Microsoft word, Microsoft excel, data management and data analysis using computer based software packages, R program, MSTAT, SPSS 11.5, Microsoft power point, and adobe Photoshop.

## ADMINISTRATIVE RESPONSIBILITIES

- Served as a **Project Coordinator** of Minimizing Rice Yield Gap (MRYG) (BRRI part) during 16 November – 5 December, 2011.

- Acted as a **Convener** of Parches and repairing, tender, environment, farm product and house allocation committee of Bangladesh Rice Research Institute (BRRI), Regional Station, Comilla-3500, Bangladesh during 08 May, 2012 to till date.
- Worked as a **Principle Investigator** of Hybridization Program (Crossing, F1 confirmation, selection from F2 to onward generations) of Bangladesh Rice Research Institute (BRRI), Regional Station, Comilla-3500, Bangladesh during 14 March, 2012 to till date.
- Acted as a **Co investigator** in various trails (OT, PYT, SYT, RYT, MLT, PVT) related to Variety Development Program of Bangladesh Rice Research Institute (BRRI), Bangladesh during 06 May, 2010 to till date.

#### TRAINING ATTENDED

- Attended an international Training on “**Biotechnology for Marker Assisted Selection in Plant Breeding and Biosafety**” conducted by the Centre for Agricultural Biotechnology, **Kasetsart University**, Kamphaeng Saen, Nakhon Pathom, **Thailand** from 23 May- 28 June, 2013.
- Successfully completed a Training on “**Implication of Molecular Tools in Crop Improvement under Stress Environment**” conducted by Plant Pathology Division, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh during 27 January-31 January, 2013.
- Successfully completed the training course on “**Research Methodology**” conducted Graduate Training Institute (GTI), Bangladesh Agricultural University, Mymensingh, Bangladesh during 01 November to 13 November, 2014.
- Successfully completed with **Distinction** performance of “**Two-month Rice Production Training Course**” held from 16 February to 16 April, 2014 conducted by Training Division, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh.
- Attended a training on “**Preparation of Effective Content for Agricultural Information Dissemination through Mass Media**” held from 18 November-20 November, 2014 funded by IAIS project under Agriculture Information Service (AIS), Comilla Region, Comilla, Bangladesh.
- Successfully participated Training on “**Breeder seed production and preservation of Rice**” funded by “Strengthening of Rice Breeder Seed Production and Maintenance of Nucleus Stock” project under Genetic Resource and Seed Division, Bangladesh Rice Research Institute (BRRI), Bangladesh during 23 May-25 May, 2010 and 03 March- 05 March, 2012.
- Attended a Training on “**Data Management**” (Microsoft, Excel, MSTATC, IRRISTAT and SPSS) conducted by Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMARU), Bangladesh outreach program from 20 November 2007- December 2007.

#### SEMINAR / CONFERENCE/ WORKSHOP PARTICIPATED

- Attended a workshop on “**Impact assessment of crop genetic improvement contributions to modern varietal replacement during 1990-2010**” held in 30 March, 2013 organized by IRRI-BRRI at Training Room, Bangladesh Rice Research Institute (BRRI), Regional Station, Comilla, Bangladesh.
- Participated one day International Conference on “**Plant Breeding to Address Stress Conditions in Bangladesh**” organized by Plant Breeding and Genetics

Society of Bangladesh at Auditorium of Sher-e- Bangla Agricultural University, Dhaka, Bangladesh during 10 December 2011.

- Participated in daylong **Golden Rice Briefing Workshop** at VIP Conference Room, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh during 27 February, 2012.
- Attended 3 days International Conference on “**Plant Breeding and Seed for Food Security**” organized by Plant Breeding and Genetics Society of Bangladesh at Bangladesh Agricultural Research Council Auditorium, Farmgate, Dhaka, Bangladesh from 10-12 March, 2009.
- Attended one day training Workshop on “**Bangladesh Rice Knowledge Bank (BRKB)**” at ICT Room, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh during 14 October, 2012.
- Participated in five days “**Annual Research Review Workshop, 2012-13**” held from 9-13 February, 2014 at Auditorium, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh.
- Attended a Joint Workshop of Scientist-Extension personnel on “**Research result of Minimizing Rice Yield Gap (MRYG) (BRRI part), under Aman (wet) and Boro (Irrigated) season, 2011-2014**” held in 12 June, 2014 at Auditorium, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh.
- Attended on day long “**Annual Regional Progress Review Workshop, 2012-2013**” funded by National Agricultural Technology Project (NATP): Phase-1 at Training Room, Bangladesh Institute of Nuclear Agriculture (BINA), Sub Station, Comilla, Bangladesh during 26 April, 2013.
- Participated in daylong “**Programme Planning Workshop of Integrated Agricultural Productivity Project (IAPP) (BRRI part)**” at VIP Conference Room, Bangladesh Rice Research Institute (BRRI), Gazipur, Bangladesh during 2 January, 2012.
- Attended on two days “**Regional Research-Extension Review and Program Planning Workshop-2012**” held from 30-31 May, 2012 at Agricultural Research Station (ARS), Comilla, Bangladesh.

#### PAPER PREPARATION / PRESENTATION

- Prepared and presented a Seminar Paper on “**Production of virus free plant through Biotechnological approaches**” in partial fulfillment of the requirements for the degree of MS approved by the Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMARU), Bangladesh
- Made a paper on “**Existing Cropping Pattern of Patuakhali Science and Technology University (PSTU) Farm**” during 2005-2006, as a partial fulfillment of the requirements for the degree of B.Sc.Ag. (Hons.).

#### INVOLVEMENT IN PROFESSIONAL ASSOCIATION

- General member of Krishibid Institution (Agriculturist Institution), Bangladesh
- Member of Bangladesh Rice Research Institute Scientific Association (BRRISA)

#### COUNTRY VISITED

- Study tour in all over Bangladesh and some part of **India** and Training in **Thailand**.

## NAME AND ADDRESS OF REFEREES

- **Dr. Mohammad Mehfuz Hasan Saikat (MS Research Supervisor)**  
Associate Professor and Head  
Department of Genetics and Plant Breeding  
Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU)  
Gazipur-1706, Bangladesh  
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- **Dr. Helal Uddin Ahmed**  
Chief Scientific Officer (Plant Breeding Division) and Head  
Bangladesh Rice Research Institute (BRRI), Regional Station  
Comilla-3500, Bangladesh  
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Cell: +8801916577660

Md. Adil

4 June, 2015

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Signature of the applicant with date

**\*APPENDIX-A FOR SUBJECTS OFFERED IN THE EXAMINATIONS**

Name of the Examinations	Subjects offered
<b>Secondary School Certificate (S.S.C.)</b>	Bengali, English, General Mathematics, Physics, Chemistry, Biology, Higher Mathematics
<b>Higher Secondary Certificate (H.S.C.)</b>	Bengali, English, Physics, Chemistry, Mathematics and Biology
<b>Bachelor of Science in Agriculture (Honours) [B.Sc.Ag.(Hons.)]</b>	<p><b>First year (Level-1)</b>  <b>Semester-1:</b>                      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)  <b>Semester-2:</b>                      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><b>Second year (Level-2)</b>  <b>Semester-3:</b>                      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- Soil Survey and Conservation (Theory and practical), ARD 201- Communication and Teaching Methods (Theory and practical), LCM 201- Communicative English Language (Theory)  <b>Semester-4:</b>                      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 Plant Pathogen (Theory and practical), STT 202- Experimental Design (Theory and practical), SFE 201- Principle of Agroforestry (Theory and practical), GPB 202- Cytology (Theory and practical)</p>
	<p><b>Third year (Level-3)</b>  <b>Semester-5:</b>                      SSC 301- Soil Physics &amp; Soil Chemistry (Theory and practical), AGB 301- Principles of Plant Physiology (Theory), ACM 301- Chemistry of Fertilizer &amp; 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 &amp; Practices of Agronomy (Theory and practical), ENT 301- Insect Physiology &amp; Nutrition (Theory and practical)  <b>Semester-6:</b>                      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><b>Fourth year (Level-4)</b></p> <p><b>Semester-7:</b>  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 &amp; Technology of Agricultural Products (Theory)</p> <p><b>Semester-8:</b>  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><b>Master of Science (MS) in Genetics and Plant Breeding</b></p>	<p><b>Summer 2007 Term (First Term)</b>  GPB 501- Cytogenetics  GPB 510- Genetics  STT 501- Methods of Statistics</p> <p><b>Autumn 2007 Term (Second Term)</b>  GPB 521- Plant Breeding  GPB 541- Breeding Field Crops  STT 510- Design Of Experiments</p> <p><b>Winter 2007 Term (Third Term)</b>  GPB 531- Quantitative Genetics  GPB 640- Advanced Plant Breeding  GPB 599- Thesis Research</p> <p><b>Summer 2008 Term (Fourth Term)</b>  GPB 545- Breeding Horticultural Crops  GPB 550- Molecular Genetics  HRT 601- Plant Tissue Culture  GPB 598- Seminar  GPB 599- Thesis Research</p> <p><b>Autumn 2008 Term (Fifth Term)</b>  GPB 599- Thesis Research</p> <p><b>Winter 2008 Term (Sixth Term)</b>  GPB 599- Thesis Research</p> <p><b>Summer 2009 Term (Seventh Term)</b>  GPB 599- Thesis Research</p> <p><b>Thesis title:</b> <i>In Vitro</i> Plant Regeneration in Indigenous Aromatic Rice under Salt Stress Conditions</p>

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## APPENDIX-B: WRITTEN WORK

### A. Graduate Work

The M. S. dissertation was on “*In Vitro* Plant Regeneration in Indigenous Aromatic Rice under Salt Stress Conditions”.

### B. Referred Journal Article

**Adil, M**, M Hasan, M M Kamal, M Zakaria and M A K Mian. 2009. *In Vitro* Plant Regeneration of Aromatic Rice Under Salt Stress. *Intl. J. BioRes.*6 (6):48-52.

Sarker, N.S., M. Hasan, M.M. Rahman, M.A.K. Mian and **M. Adil**. 2010. *In Vitro* Selection for Salt Tolerance in Aromatic Rice Genotypes. *J. Agric. & Env. Sci.* 2: 25-28.

Mahmud, MNH, MA Rashid, MU Ahmmed, **M Adil** and MR Hasan. 2012. Water and Soil Salinity Monitoring in The Coastal Region of Barisal. *Eco-friendly Agril. J.* 5 (09):146-152.

Zahid, Md. Nur, Mehfuz Hasan, **Md. Adil**, M. Mofazzal Hossain and M.A Khaleque Mian. 2014. *In Vitro* screening for salt tolerance in aromatic rice genotypes. **Open Science Journal of Bioscience and Bioengineering.** 1(2): 28-32.

Journals highlighted indicate international status

## APPENDIX-C: WORK DESCRIPTIONS

SL No.	Work Descriptions
1.	I have been carrying out research on different Varietal Development Programs such as hybridization, F1 confirmation, selection from F2 to onward generations, rice breeding for salt, premium quality, drought tolerant, disease resistant improvement of upland rice, short duration and high zinc content. I conducted various trails like OT (Observational trail), PYT (Preliminary Yield Trail), SYT (Secondary yield Trial), RYT (Regional Yield Trial) and MLT (Multi Location Trial) related to Variety Development Program. In addition I conducted various adaptive research activities like ALART (Advanced Line Adaptive Research Trail) and PVT (Proposed Variety Trial). I also engaged with technology transfer activities like farmer field demonstrations, farmer’s trainings and field days, since my joining.
2.	I also worked in various project like “Southern Coastal Region Rice Production and yield increase Programme” (SRRPP), “Development and Dissemination of Rice-based technologies good for changing climate”, **“Strengthening of Rice Breeder Seed production and Maintenance of Nucleus Stock”, “Minimizing Rice Yield Gap” (MRYG) (BRRl part) and ***“Enhancement of Qualified Seed Supply” (EQSS). ** indicate on going project.
3.	I obtained some promising lines that are suitable for short duration, drought tolerant and premium quality with high yield potential by using conventional breeding.