

# CURRICULUM VITAE

## 1. Personal Profile:

- Name : **DR. MD. GOUS ALI**
- Father's Name : Md. Gonu Miah (Deceased)
- Mother's name : Mrs. Tarajan Begum (Deceased)
- Permanent Address : Village - Uttarbhag, Post Office - Adampur  
Upazila - Kamalganj, District - Moulvibazar 3220  
Bangladesh
- Present Address : Principal Scientific Officer (PSO), Agronomy Division  
Bangladesh Rice Research Institute (BRRI)  
Gazipur 1701, Bangladesh
- Mailing address : Principal Scientific Officer (PSO), Agronomy Division  
Bangladesh Rice Research Institute (BRRI)  
Gazipur 1701, Bangladesh,  
Mobile no. 01718278627, Email- [mgali2004@yahoo.com](mailto:mgali2004@yahoo.com)
- Date of first appointment at BRRI: 16 June, 1983
- Place of Birth : Moulvibazar, Bangladesh
- Domicile : Bangladeshi by birth
- Date of Birth : 31 July, 1959
- Religion : Islam (Sunni)
- Sex : Male
- Marital Status : Married
- Children : Two (Daughter and Son)

## 2. Academic Qualification:

Name of Examination/ Degree	Total Duration (Year)	Institute Attended	Year of Exami- nation	Division/ Class*	Educational Board/ University	Marks Obtained (%)	Medium of Instruction
Secondary School Certificate (S.S.C.)	10 (From Primary School)	M.A. Wahab High School Adampur	1974	First	Comilla	61.44	Bangla
Higher Secondary Certificate (H.S.C.)	2	Sylhet Government College Sylhet	1976	Second	Comilla	50.70	English
Bachelor of Science in Agriculture (B.Sc.Ag. Hons.)	4	Bangladesh Agricultural University (B.A.U.) Mymensingh	1981 Held in 1982	Second	B.A.U. Mymensingh	57.70	English
Master of Science in Agriculture (M.Sc.Ag.) (Agronomy)	1	B.A.U. Mymensingh	1985 Held in 1989	First	B.A.U. Mymensingh	60.00	English
Doctor of Philosophy (Ph.D.) in Agronomy (Seed Technology)	4	University of Aberdeen, UK	2001	-	University of Aberdeen, UK	-	English

\*Grading System: 60% and above = First Division/Class; 45% and above = Second Division/Class

### 3. Subject Studied:

Degree/ Diploma	Major Field	Subjects
S. S. C.	Science	Bangla, English, Mathematics, Physics, Chemistry, Biology, Elective Mathematics, and Practical
H. S. C.	Science	Bangla, English, Mathematics, Physics, Chemistry, Biology, and Practical
B. Sc. Ag. (Hons.)	Agriculture	Agronomy, Soil Science, Botany, Genetics and Plant Breeding, Horticulture, Plant Pathology, Entomology, Agricultural Chemistry, Farm Mechanics, Animal Husbandry, Agricultural Economics, Sociology, Agricultural Extension, Agricultural Statistics, Biochemistry, Analytical Chemistry, and Practical
M. Sc. (Ag)	Agronomy	General Agronomy, Advanced Crop Husbandry, Agronomic Research, and Practical, and Thesis
Ph. D.	Agronomy (Seed Technology)	Thesis

### 4. Experiences:

Serving as a Scientific Officer (Agronomist) in Agronomy Division, BRRI, from 16 June, 1983 to 04 November, 1992, Senior Scientific Officer (Senior Agronomist) from 05 November and Principal Scientific Officer (Principal Agronomist) from 25 November, 2009 to till to date. The main responsibility is to plan and execution of research on crop production and management, weed management, and also fertilizer management, especially on nitrogen, potash and sulphur management both in irrigated and rainfed lowland and upland rices under different ecosystems (favorable and unfavorable rice environment), technology disseminating; programme developing, implementing, monitoring and also statistical analyses of data and interpretation of data and report writing and presentation. Training course developed, arranged and provided training as a trainer to GO-NGOs' farmer, staff and officers. Performed duties as Head of Regional Stations with administrative and financial responsibilities.

### 5. Service records:

Designation	Place of posting	From	To
SO	BRRI Regional Station, Habiganj	16.06.1983	26.08.1988
SO	Agronomy Division, BRRI, Gazipur	27.08.1988	04.11.1992
SSO	Agronomy Division, BRRI, Gazipur	05.11.1992	02.04.2004*
SSO	BRRI Regional Station, Sonagazi	03.04.2004	16.07.2006
SSO	Agronomy Division, BRRI, Gazipur	17.07.2006	24.11.2009
PSO	Agronomy Division, BRRI, Gazipur	25.11.2009	07.02.2010
PSO	BRRI Regional Station, Rangpur	08.02.2010	26.04.2014
PSO	Agronomy Division, BRRI, Gazipur	27.04.2014	Till to date

\*April 1998 to January 2002 in United Kingdom for PhD.

## **6. Special training received:**

### **a) In country :**

1. Satisfactorily completed the training course on “Pre-service training on Administration, Office Management and Communication”, held in Graduate Training Institute (GTI), BAU, Mymensingh from 09 to 18 January, 1983.
2. Satisfactorily completed the four months of special training on "Theory and Practices of Rice Production and Research Management", held at BRRI, Gazipur from 17 August to 03 December, 1983.
3. Satisfactorily completed the training course on "Research Planning and Evaluation", held at BRRI, Gazipur from 02 to 17 December, 1988.
4. Satisfactorily completed the training course on "Data Management with dBase III Plus", held at Institute of Scientific Instrumentation (ISI) under University Grant Commission (UGC), Dhaka from 10 March to 23 April, 1990.
5. Satisfactorily completed the training workshop on "Techniques of Writing and Presentation of Radio Agriculture Talk", held at AIS (Agricultural Information Service), Khamarbari, Dhaka from 28 to 29 July, 1991.
6. Satisfactorily completed the training course on "Experimental Design and Statistical Analysis" sponsored by RLRRRC (Rainfed Lowland Rice Research Consortium), IRRI (International Rice Research Institute), held at BRRI, Gazipur from 08 to 19 November, 1994.
7. Satisfactorily completed the training course on “Use of Fertilizer Inspection Manual”, held at BARC (Bangladesh Agricultural Research Council), Dhaka from 28 May to 01 June, 2005.
8. Satisfactorily completed the training course on "Hybrid Rice Seed Production", held at BRRI, Gazipur from 02 to 03 May, 2007.
9. Satisfactorily completed the training course on “Seed Quality Management”, held at BARC, Dhaka from 19 to 21 January, 2010.
10. Satisfactorily completed the training workshop on "Group Communication, Mentoring and e-Learning", sponsored by CSISA (Cereal Systems Initiative for South Asia), held in Hotel Center Point, Gulsan-2, Dhaka from 21 to 24 November, 2010.
11. Satisfactorily completed the training course on "Breeder Seed Production and Preservation", held at BRRI, Gazipur from 18 to 20 June, 2011.
12. Satisfactorily completed the training course on "Research Proposal Preparation and Scientific Report Writing" sponsored by KGF (Krishi Gobeshona Foundation), BARC, held at BRAC-CDM, Rajendrapur, Gazipur from 24 to 08 August, 2013.
13. Satisfactorily completed the training course on "Administrative and Financial Management" sponsored by BARC, held at BARD (Bangladesh Academy for Rural Development), Comilla from 21 September to 02 October, 2014.

### **b) Abroad:**

1. Satisfactorily completed the training course on "Genetic Evaluation and Utilization (GEU) of Rainfed Lowland Rice", held at International Rice Research Institute (IRRI), Philippines and Thailand from 25 July to 08 November, 1988.
2. Successfully completed the training course on "Rice Cultivation Technique and Extension, (Rice Based Cropping Systems), held at Suphanburi Experiment Station and Training Centre, Thailand from 10 February to 26 March, 1993.

3. Successfully completed the training course on "Rice Production (Individual)", held at Tohoku National Agricultural Experiment Station, Omagari, Akita, Japan under Department of Lowland Farming from 07 March to 14 November, 1996.
4. Participated in the "Induction Course for New Postgraduate Research Students" in the Faculties of Science & Engineering and Medicine & Medical Sciences, held at the University of Aberdeen, UK from 13 to 15 October, 1998.
5. Participated in the "In-sessional Course in English for Academic Purpose", offered by the Language Centre of the University of Aberdeen from February to May, 1999.
6. Successfully completed the training course on "Phenotyping for Abiotic Stresses in Rice", held at International Rice Research Institute (IRRI). Los Banos, Philippines from 27 October to 10 November, 2011.

## **7. Workshop/Seminar/Meeting/Conference attended:**

### **a) In country:**

1. Planning Workshop on Kharif-I activities (2003-2004), held at Deputy Director (DD), Department of Agricultural Extension (DAE) Office, Noakhali on 04 April, 2004, organized by Char Development and Settlement Project (CDSP)-II (DAE Part), DAE, Noakhali.
2. First Annual Review and Planning Workshop of Challenge Program on Water and Food Project No. 7. "Development of Technologies to Harness the Productivity Potential of Salt-affected Areas of Indo-Gangetic, Mekong and Nile River Basins", organized by IRRI and supported by CGIAR (Consultative Group on International Agricultural Research) Challenge Program on Water and Food, held at BRAC Centre, Gulshan-1, Dhaka on 23 April, 2005.
3. Eighth Biennial Agronomy Convention and Symposium, held at Sher-e-Bangla Agricultural University, Dhaka on 26 May, 2005, Theme: Challenges and Opportunity of Sustainable Crop Production in Bangladesh. Organized by Bangladesh Society of Agronomy (BSA).
4. Workshop on Accelerating Technology Adoption to Improve Rural Livelihoods in the Rainfed Eastern Gangetic Basins. Integrating Lessons Learnt from Farmers in First-Tracking Technology Adoption. Direct Wet-Seeding of Rice Using a Plastic Drum Seeder. Organized by IRRI, BRRI, DAE, held at BRRI, Gazipur and BRAC Centre, Mohakhali, Dhaka from 20 to 22 June, 2005.
5. Training Workshop on Demonstration of BRRI Varieties for Yield Optimization and Seed Production, held at BRRI, Gazipur on 25 July, 2005.
6. Seminar on Challenges of Agriculture in SAARC Region, held at BARC, Dhaka on 08, 2009.
7. Workshop on Impact Pathways of AWD (Alternate Wetting and Drying) Dissemination and Visions for Up Scaling AWD in Bangladesh held at German Technical Cooperation (GTZ), Gulshan-2, Dhaka on 05 August, 2010.
8. Second Annual Review and Planning Meeting of ACIAR (Australian Council of International Agricultural Research) Rice-Maize Project, held at BRAC Centre, Mohakhali, Dhaka from 03 to 04 October, 2010.
9. International Conference on Crop Production under Changing Climate in Bangladesh: Agronomic Options, held at BARC, Dhaka from 06 to 07 October, 2010, organized by Bangladesh Society of Agronomy (BSA).
10. Inception Workshop of Climate Change (Trust Fund) Project, BRRI, held at BRRI, Gazipur on 14 February, 2011.

11. Planning Workshop on Stress Tolerant Rice for Africa and South Asia (STRASA) Phase 2. Held at Spectra Convention Centre Limited, Gulshan-1, Dhaka on 09 April, 2011.
12. Regional Workshop-2010/11 on Outreach and Information Dissemination for Rajshahi and Rangpur Region, Rural Development Academy (RDA), Bogra, organized by NATP (National Agricultural Technology Project): Phase 1, on 04 June, 2011.
13. Meeting with a team of scientists from IRRI and IRRC (Irrigated Rice Research Consortium) review team to discuss AWD research and adoption as a component of irrigated rice system, held at IRRI Bangladesh Office, Dhaka on 08 September, 2011.
14. Workshop on Dolochun Increases Crop Production in Acid Soils of Bangladesh: Experiences from Rangpur and Sylhet Divisions, held at Wheat Research Centre (WRC), BARI (Bangladesh Agricultural Research Institute), Nashipur, Dinajpur on 22 October, 2011, organized by WRC and Food for Progress Program in Bangladesh with funding from US Department of Agriculture.
15. District Workshop on Minimization of Rice Yield Gap Project (DAE Part), held at DD, DAE, Rangpur Office on 23 January, 2012.
16. Workshop on Climate Change and Crop Disease, held at Agricultural Research Centre, BARI, Burirhat, Rangpur on 04 February, 2012.
17. Annual Planning and Review Workshop for Phase 2 of the Project STRASA, held at Spectra Convention Centre Limited, Gulshan-1, Dhaka from 16 to 17 April, 2012
18. Training Workshop on Weather Station, held at BRRI, Gazipur on 17 May, 2012, organized by Climate Change (Trust Fund) Project, BRRI.
19. BRRI Annual Research Review Workshop 2012-2013, held BRRI, Gazipur from 09 to 13 February, 2014.
20. Consultation Meeting on Research and Development Program for Less Water Requiring Production System in Drought Prone Environment, held at Rural Development Academy (RDA), Bogra on 22 March, 2014, organized by Krishi Gobeshona Foundation (KGF).
21. Mid Term Evaluation Workshop on Integrated Agricultural Productivity Project (IAPP)-BRRI Component, held at BRRI, Gazipur on 06 May, 2014
22. Regional Workshop on Integrated Agricultural Productivity Project (IAPP)-BRRI Component activities in Rangpur Region, held at BRRI Regional Station, Rangpur on 14 May, 2014.
23. Workshop on Minimization of Rice Yield Gap Project (BRRI Part), held at BRRI, Gazipur on 12 June, 2014.
24. National Workshop on Minimization of Rice Yield Gap Project (DAE Part), held at DAE, Farmgate, Dhaka on 17 June, 2014.
25. International Plant Nutrition Institute (IPNS) Workshop, held at Bangladesh Fertilizer Association (BFA), Dhaka on 19 July, 2014.
26. Annual Review Workshop on Crop Production Program (Research Progress 2013-2014 and Research Program 2014-2015), held at BARC, Dhaka from 24 to 25 August, 2014.
27. Thirteenth Conference of Bangladesh Society of Agronomy (BSA) on Agronomic Vision for Sustainable Food Security, held at BRRI, Gazipur on 20 September, 2014.
28. BRRI Annual Research Review Workshop 2013-2014, held at BRRI, Gazipur from 31 December, 2014 to 05 January, 2015.

29. Regional Workshop on Integrated Agricultural Productivity Project (IAPP)-BRRI component activities in Barisal Region, held at BRRI Regional Station, Barisal on 28 March, 2015.
30. Seminar on the Use of ARMIS (Agricultural Research Management Information System), held at BRRI, Gazipur on 02 April, 20015.

**b) Abroad:**

1. The World Seed Conference, held at The Music School, Cambridge, UK from 6-8 September, 1999.
2. Ninth CURE (Consortium for Unfavorable Rice Environments) Review and Steering Committee Meeting, held at Hotel Cozyna Angkor, Siem Reap, Cambodia from 03 to 06 May, 2010.
3. Tenth CURE Review and Steering Committee Meeting, held at Hotel Annapurna, Kathmandu, Nepal from 18 to 20 April, 2011.
4. Eleventh CURE Review and Steering Committee Meeting, held at Grand Mercure Fortune Hotel, Bangkok, Thailand from 24 to 27 April, 2012.
5. Twelfth CURE Review and Steering Committee Meeting, held at Holiday Resort Hotel, Lombok, Indonesia from 23 to 25 April, 2013.
6. Training Workshop on Characterization of Rice Growing Environment for Dissemination of Stress Tolerant Varieties in South Asia held at Hotel Annapurna, Kathmandu, Nepal from 24 to 26 July, 2013.
7. Thirteenth CURE Review and Steering Committee Meeting, held at Brilliant Hotel, Danang, Vietnam from 08 to 10 April, 2014
8. Review Workshop of STRASA (Stress Tolerant Rice for Africa and South Asia) Phase 2 and Launching STRASA Phase 3, held at Indian Academy of Agricultural Sciences, NASC Campus, New Delhi, India from 20 to 23 May, 2014.

**8. Publication:**

**(a) Scientific journal**

**(i) Full paper:**

1. **M.G. Ali**, S.A. Sattar, M.A. Gaffer and A.A. Mamun. 1992. Effect of planting methods and nitrogen rates on yield components and yield of lowland rice. *Bangladesh Rice Journal*, 3(1 & 2): 119-122.
2. **M.G. Ali**, M.A. Mannan, K.P. Halder and S.B. Siddique. 1993. Effect of planting dates on the growth and yield of modern transplanted aman rice. *Annals of Bangladesh Agriculture*, 3(2): 103-108.
3. **M.G. Ali**, S.A. Sattar, M.A. Gaffer and A.A. Mamun. 1993. Effect of planting methods and nitrogen on growth and N-uptake of lowland rice. *Bangladesh Rice Journal*, 4(1 & 2):1-4.
4. A.H. Molla, M.Z. Haque, A.K.M. Azmal, **M.G. Ali**, A. Quayam and S.M. Ibrahim. 1994. Harvest index of 12 rice varieties under different fertilizer management. *Bangladesh Rice Journal*, 5(1 & 2): 27-30.
5. **M.G. Ali**, K.U. Ahmed, M.A. Jabbar, A.A. Choudhury, S.B. Siddique, M.A.H. Molla and K.A. Billah. 1995. Effect of seeding methods on the biomass production of rice and growth of weed under rainfed lowland condition. *Bangladesh Rice Journal*, 6(1 & 2): 31-35.
6. S.B. Siddique, K.U. Ahmed, **M.G. Ali**, M.A. Jabbar, A.A. Choudhury and K.P. Halder. 1995. Optimum time of planting for modern rice varieties in the south-east part (Chittagong) of Bangladesh. *Bangladesh Rice Journal*, 6(1 & 2): 69-71.
7. **M.G. Ali**, R.E.L. Naylor and S. Matthews. 1999. Seed survival curves of two rice cultivars under two moisture regimes stored at 30 °C. *Bangladesh Agronomy Journal*, 9(1 & 2): 73-78.

8. **M.G. Ali**, R.E.L. Naylor and S. Matthews. 2003a. The effect of ageing (using Controlled Deterioration) on the germination at 21°C as an indicator of physiological quality of seed lots of fourteen Bangladeshi rice (*Oryza sativa* L.) cultivars. Pakistan Journal of Biological Sciences, 6(10): 910-917.
9. **M.G. Ali**, R.E.L. Naylor and S. Matthews. 2003b. The effect of range of constant temperatures on the germination of fifteen Bangladeshi rice (*Oryza sativa* L.) cultivars. Pakistan Journal of Biological Sciences, 7(7): 1274-1281.
10. **M.G. Ali**, M.Z. Alam, .E.L. Naylor, S. Matthews, A.A. Bhuiyan and. M.S.A. Talukder. 2004. The effect of constant and alternating temperature on on emergence and early seedling growth of five Bangladeshi rice cultivars in water saturated soil. Pakistan Journal of Biological Sciences, 6(12): 1070-1076.
11. M.A. Mannan, **M.G. Ali**, M.B. Rahman, N. Ferdous and M.M. Zaman. 2005. Effect of nitrogen on the growth and yield of promising genotypes of transplanted Aus rice. Journal of Science Foundation, 3(1): 101-107.
12. **M.G. Ali**, R.E.L. Naylor and S. Matthews. 2006. Distinguishing the effects of genotypes and seed physiological age on low temperature tolerance of rice (*Oryza sativa* L.). Experimental Agriculture, 42(3): 337-349. Cambridge University Press.
13. **M.G. Ali**, A.B.S. Sarker, M.B. Rahman, R.E.L. Naylor and S. Matthews. 2008. Effects of genotypes and seed quality on low temperature tolerance of rice during germination. Bangladesh Rice Journal, 13(1): 15-21.
14. M.B. Rahman, S.M.A. Hossain, J.C. Biswas, S.A. Islam, **M.G. Ali** and M. Ashiqur Rhman. 2008. Influence of N and weed management practices on rice yield under different crop establishment methods. Eco-Friendly Agriculture Journal, 1(1): 26-31.
15. A.B.S. Sarker, M.B. Rahman, **M.G. Ali**, M.A. Mannan, R. Yasmeen and M.A. Islam. 2008. Effect of crop establishment methods on the performance of transplanted Aman rice in north-western region of Bangladesh. Bangladesh Rice Journal, 13(1): 107-112.
16. M.K.A Bhuiyan, 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 Journal of Weed Science, 1(1): 57-63.
17. Md. Sabir Uddin Ahmed and **Md. Gous Ali**. 2010. Assessment of rice seed quality based on the Extent of seed ageing, environment and variety. Bangladesh Rice Journal, 15(1): 81-91.
18. **M.G. Ali**, M.K. Hossain, M.A.J. Mridha and R. Durlov. 2011. Effect of weed growth on tillage condition and herbicide source in conservation agriculture (ca) based dry direct seeded rice. Bangladesh Journal of Weed Science, 2(1&2): 87-92.
19. **M.G. Ali**, M.E. Hoque, A. Ismail and D. Mackill. 2013. Performance of some promising rice genotypes under flood prone areas. Bangladesh Agronomy Journal, 16(1): 23-28.
20. M.A. Badshah, M. Hazrat Ali, **M.G. Ali** and A.B.M.A. Uddin. 2013. Yield performance of some exotic hybrid rice at different dates of planting in the northern part of Bangladesh. International Journal of BioResearch, 15(4): 1-6.

**(ii) Short communication:**

1. **M.G. Ali**, S.A. Sattar, M.A. Gaffer and A.A. Mamun, 1993. Effect of planting methods and nitrogen on grain filling, weed biomass and cost of production of lowland rice. Bangladesh Rice Journal, 4(1 & 2): 146-148.
2. **M.G. Ali**, M.A. Mannan, M.A. Jabbar, R.E.L. Naylor and S. Matthews. 2008. Effect of short-term storage of rice seeds on germination at varying temperatures levels. Bangladesh Journal of Agricultural Research, 33(1): 167-173.

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

1. Radio Talk
2. Rice cultivation by seedling throwing
3. পরিবর্তিত জলবায়ু মোকাবেলায় আউশ মৌসুমে ব্রি ধান৪৮ চাষে উজ্জ্বল সম্ভাবনা
4. পরিবর্তিত জলবায়ু মোকাবেলায় শুকনা জমিতে সরাসরি বপন পদ্ধতিতে আগাম আমন ধান উৎপাদন
5. উৎপাদন খরচ কমাতে ধানের জমিতে আগাছানাশকের ব্যবহার

**(c) Proceedings:**

1. S.B. Siddique, M.A. Mazid, M.A. Mannan, K.U. Ahmed, M.A. Jabbar, A.J. Mridha, **M.G. Ali**, A.A. Choudhury, B.C. Roy, M.A. Hafiz, J.C. Biswas, S.A. Sattar and M. S. Islam, 1991. Cultural practices for modern rice cultivation under lowland ecosystems. In proceedings of the workshop on experiences with modern rice cultivation in Bangladesh, held at BRRI, Gazipur on 23-25 April, 1991.
2. G.J.U. Ahmed, M.A.J. Mridha, **M.G. Ali** and S.B. Siddique. 1997. Effect of planting time on the performance of newly released BRRI varieties and promising lines. Paper presented at the workshop for technology identification under Thana Cereal Technology Transferred and Identification Project of GOB/FAO.
3. Kazuo Terashima, **Md. Gous Ali** and Shigemi Akita. 1999. Morphological and Physiological Traits of Root Lodging Tolerant US Rice Varieties. In proceedings of the International Symposium on World Food Security, held at Kyoto, Japan. Page 269-272.
4. **M.G. Ali**. 2002. The effect of a range of constant temperatures on germination of seed lots of fifteen cultivars of rice. Paper presented at the Thursday Seminar, BRRI, Gazipur, held at 11 April, 2002.
5. Md. Shahe Alam and **Md. Gous Ali**. 2003. Reasons for yield gaps between research plot and farmers' field in rice and its remedies. Paper presented in the National Symposium on Assessment of Yield Gap, Reasons and Remedial Measures, held in Pouro Auditorium, Thakurgaon in 07 January, 2003.

**(d) Abstract:**

1. S.B. Siddique, M.A. Mannan, **M.G. Ali**, 1991. Effect of planting dates on the growth and yield of some promising lines/varieties in Aman season. An abstract published in BAAS 16th Annual Science Conference Proceedings, section-1, page-23, serial no. 32, held at BARC, Dhaka, 5-7 July, 1991.
2. M.A. Mannan, **M.G. Ali**, M.A. Hafiz and S.B. Siddique. 1992. Effect of planting dates on the growth and yield of some promising lines/varieties. An abstract published in BAAS 17th Annual Science Conference Proceedings, section-1, page-24, serial-34, held in IPSA, Salna, Gazipur, 1992.
3. **M.G. Ali**, M.A. Mannan, and S.B. Siddique. 1994. Effect of time planting on the growth and yield of modern rice varieties. An abstract published in BAAS 18th Annual science conference Proceedings, section-1, page-18, serial-35, held in BAU, Mymensingh, 22-24 June, 1994.
4. Kazuo Terashima, **Md. Gous Ali** and Shigemi Akita. 1998. Morphological and Physiological Traits of Root Lodging Tolerant US Rice Varieties. An abstract published in Japan Journal of Crop Science, Volume 67, extra issue 2.
5. **M.G. Ali**, M.A.J. Mridha, M.E. Haque and S. Singh. 2014. Enhance production of submergence-tolerant (sub1) rice genotypes through nursery management in flood-prone rainfed lowlands in northern part of Bangladesh. An abstract published in BSA 13th Conference Proceedings, page-57, serial-29, held in BRRI, Gazipur on 20 September, 2014.

**(e) Reports/Handout:**

1. **M.G. Ali.** 1990. Agronomic Practices of Deepwater Rice Cultivation. Handout for the participants in 3-month Rice Production Specialist Training Course at BRRI, Gazipur held on 28 October, 1990.
2. **M.G. Ali.** 1992. Concepts of Soil Tillage and Tillage Practices. Handout for the participants in 3-month Rice Production Specialist Training Course at BRRI, Gazipur held on 13 October, 1992.
3. **M.G. Ali.** 1993. Country Report on Cropping/Farming System in Bangladesh. Presented in the training course on Rice Cultivation Techniques and Extension, held at Suphanburi Training Centre, Thailand from February 01-March 26, 1993.
4. **M.G. Ali.** 1996. Final Report on Rice Production (Individual) Training Course held in Laboratory of Crop Eco-Physiology, Department of Lowland Farming, Tohoku National Agricultural Experiment Station, Omagari, Akita, Japan from March 07-November 14, 1996.
5. **M.G. Ali.** 2003. New Concept of Seedling Establishment with an Emphasis on Wet Seeding and Seedling Throwing. Handout for the participants in 2-month Rice Production, Communication and Office Management Training Course at BRRI, Gazipur held on 29 December, 2003.
6. **M.G. Ali.** 2004. Cultural Management for Quality Rice Seed Production. Handout for the participants in 2-month Rice Production, Communication and Office Management Training Course at BRRI, Gazipur held on 15 February, 2004.
7. **M.G. Ali.** 2004. Preservation of Quality Rice Seed. Handout for the participants in 2-month Rice Production, Communication and Office Management Training Course at BRRI, Gazipur held on 15 February, 2004.
8. **M.G. Ali.** 2004. Recommended Agronomic Practices for MV Rice. Handout for the participants in 1-month Rice Production Training Course at BRRI, Gazipur held on 07 March, 2004.
9. **M.G. Ali** 2011. Different Growth Stages of Rice and Appropriate Management Practices of Each Stage. Handout for the participants in 3-day Training Course for Sub-Assistant Agriculture Officer, held at DD, DAE, Rangpur Office on 13 June, 2011.
10. **M.G. Ali.** 2014. Modern Technologies for Intercultural Operations in Rice Cultivation. Handout for the participants in 1-week Rice Production Training Course at BRRI, Gazipur held on 02 November, 2014.
11. **M.G. Ali.** 2014. Dormancy, Germination, Viability and Vigor of Rice Seed. Handout for the participants in 3-day Quality Rice Seed Production and Preservation Technology Training Course at BRRI, Gazipur held on 26 November, 2014.

**9. Research program/project building:**

**A. Ph.D. Degree:**

Awarded from the University of Aberdeen, Scotland, United Kingdom (UK) in 2001.

**Thesis title:** The effects of low temperature and seed quality on the germination of fifteen rice (*Oryza sativa* L.) cultivars from Bangladesh.

**Name of supervisor:** Dr. Robert E. L. Naylor (Bob Naylor), D. Sc., FIBiol., Crop Botanist and Seed Biologist, Professor University of Aberdeen, Scotland, United Kingdom (UK)

**Name of co-supervisor:** Dr. S. Mathews, B. Sc., Ph.D., D. Sc., FIBiol., Professor University of Aberdeen, Scotland, United Kingdom (UK)

Under this degree the following experiments were conducted:

1. The effect of a range of constant temperatures on germination of seed lots of fifteen cultivars of rice.
2. The effect of ageing on the germination at 21°C as an indicator of physiological quality.
3. The effect of ageing on the germination of seed lots of four rice cultivars at two temperatures regimes (21°C and 11°C).
4. The effect of ageing on the germination of two rice cultivars at a range of constant temperatures.
5. The effect of ageing on germination under water of two rice cultivars at a range of constant temperatures;
6. The effect of dehusking on the seed survival curves of seed lots of two rice cultivars.
7. Comparison of seed survival curves of two rice cultivars at two moisture contents and 30°C.
8. The effect of prolonged storage on the subsequent germination of seed lots of two cultivars at 20°C and 11°C.
9. The effect of pre-germination hydration treatment (at 20°C) of seed lots of two rice cultivars on the subsequent germination at 20°C and 13°C.
10. The effect of constant and alternating temperatures on emergence and early seedling growth in soil of seed lots of five cultivars of rice.

#### 10. Number of technology developed:

Technology Development	Present Status	Remarks
<b>A. Rice Production Package of Technology</b>		
1. Planting methods	Widely accepted by the farmer.	Profitable and easy intercultural operation.
2. Seedling age and plant density	Sustainable and accepted by the farmer.	Appropriate seedling age and proper plant density increase yield.
3. Time of planting for different AEZ of Bangladesh	Used by the farmer.	Explore cut-off date for different MV rice.
4. Weed control and their management	Practiced by the farmer.	Increase yield and control pest and diseases.
5. Integrated nutrient management	Widely used by the farmer.	Balanced fertilization, improve soil health.
6. Techniques of crop establishment (seedling throwing)	Demonstration and validation in the farmers' field.	Production cost minimize, easy to practice and water saving.
7. Evaluation and recommendation of new generic herbicides	Widely used by the farmer.	Production cost minimize and easy to practice.
8. Cultivation techniques of short duration Aman varieties for 'monga' mitigation.	Widely used by the farmer.	Farmers' livelihood improvement
9. Nutrient management and techniques of crop establishment of submergence tolerant rice in northern Bangladesh	Demonstration and validation on station	Production cost minimizes and increase yield.
10. Direct dry seeding cultivation technology for short duration Aman varieties to mitigate climate change situation	Demonstration and validation on station and farmers' fields	Production cost minimizes and increase yield
11. Management package of submergence tolerant Aman varieties after de-submergence	Demonstration and validation on station and farmers' fields	Production cost minimizes and increase yield

12. Management package of rice for tidal flood prone and saline areas in southern region	Demonstration and validation on farmers' fields	Production cost minimizes and increase yield
<b>B. Germination, Seedling Establishment and Quality Seed and Seedling Production</b>		
13. Temperature influenced on seed germination	Growing awareness to the farmer.	Better seed germination and quality seed production.
14. Temperature as an indicator of physiological quality of aged seed	Awareness to the farmer.	Identify good quality cultivars.
15. Germination of prolonged-stored seed and emergence and early seedling growth under constant and alternating temperatures	Awareness to the farmer.	Better preservation and good quality seedling production.
16. Breeder seed and TLS seed production	Increase quality seed production and disseminate among the farmers.	Increase national average yield.
17. Quality seedling production by seedbed management	Awareness to farmer	Better establishment and increase yield.
18. Water management for quality Boro rice seedlings in cold prone areas	Demonstration and validation on station	Production good quality seedling and increase yield

### 11. Previous responsibilities:

- Head of BRRI Regional Station, Rangpur, Bangladesh (February, 2010 to April, 2014)
- Site Coordinator: STRASA-BMGF (Submergence) Project, IRRI (February, 2010 to May, 2014)
- Site Coordinator: ACIAR Rice-Maize Project, BRRI, Rangpur (February, 2010 to December, 2013)
- Principal Investigator: Labor Productivity and Community Ecology Working Group, Key site, Rangpur, IRRI. (February, 2010 to September, 2013)
- Principal Investigator: Climate Change (Trust Fund) Project (Development and Dissemination of Rice Based Technologies Good for Changing Climate), Ministry of Environment and Forestry (July, 2010 to June, 2012)
- Principal Investigator: Minimization Rice Yield Gap Project-BRRI Part (Identification of location specific rice cultivation problem and minimizing rice yield gap through BRRI technologies), Ministry of Agriculture (July, 2010 to July, 2014)
- Principal Investigator: HarvestPlus Project, IRRI (November, 2012 to July, 2013)
- Site Coordinator and Core Scientist: Integrated Agricultural Productivity Project (IAPP) -BRRI Component, Ministry of Agriculture and World Bank (July, 2010 to April, 2015)

### 12. Current responsibilities.

- Principal Scientific Officer (PSO), Agronomy Division, BRRI, Gazipur
- Principal Investigator: IAPP-BRRI Component, Barisal Region
- Principal Investigator: AFACI (Asian Food and Agriculture Cooperation Initiative)

### 13. Relevant activities and achievement:

1. Participation in the International Rice Testing Program
2. Participation in the National Radio Program on Agriculture.
3. Conducted farmers training program on rice production.
4. Participated DTC/ATC meeting.

5. Participated Regional Research Extension Workshop.
6. Conducted farmers training program on integrated rice-duck farming.
7. Supervised SPDP at different regions of Bangladesh.
8. Participated CDSP workshop/ planning meeting.
9. Participated seminar, workshop and conference at national/international level.
10. Full-filled responsibilities of Head of BRRI Regional Station.
11. Reviewed research papers.
12. Performed duties as a resource person in training programs.
13. Organized 'Field Day' on rice cultivation.
14. Demonstrated agricultural machineries to the farmers and extension workers.
15. Acting as a member in national committee.
16. Conducted farmers' field trials and other research activities related to BRRI variety development program.
17. Received award for doing Ph. D. in abroad.
18. Done collaborative works with extension personnel's and NGOs for disseminating BRRI's technology.
19. Participated "Seed and Technology Fair".
20. Acting as a member of various inquiry committees.
21. Monitoring and evaluation of NGO activity related to SRI in Srimangol, Moulvibazar.
22. Monitoring rice-duck farming activities at different regions of Bangladesh.
23. Farmers field visit regarding sterility problems
24. Visited research field in different regions of Bangladesh.
25. Monitoring Boro and Aman rice cultivation in Moulvibazar district with DAE personnel's.
26. Full-filled research related various report writing activities.
27. Discharged duties as a Presiding Officer in national and upazila elections
28. Acting as a Principal Investigator in Field Evaluation of new herbicides

**14. Name of the referee:**

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**(DR. MD. GOUS ALI)**