CURRICULUM VITAE (CV)

1. Name : **DR. MD. ABDUL KADER**

2. Father's Name : Late Md. Aminul Islam

3. Mother's Name : Mrs Rofia Khatun

4. Permanent Address : Village + P. O. – Barashwar (Post Code – 3526), Ward Number – 4, Union– Rajapur, Upazila– Burichang, District– Cumilla, Bangladesh.

5. Present Address : Chief Scientific Officer, Plant Breeding Division, Bangladesh Rice Research Institute (BRRI), Joydebpur, Gazipur-1701, Bangladesh.
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6. Residential Address : House No. – F-Tagar-2, BRRI Residential Area, Bangladesh Rice Research Institute (BRRI), Joydebpur, P. O. – BRRI (Post Code – 1701), Ward number – 27, Upazila – Sadar, District – Gazipur, Bangladesh.

7. Date of Birth : 01 April, 1969

8. Nationality : Bangladeshi (by birth)

9. Religion : Islam (Sunni)

10. Marital Status : Married

11. Educational Qualification:

Name of Exam.	Year of Passing	Board/University	Division/ Class	Marks Obtained (%)
S.S.C (Science)	1985	Comilla	First	66.6
H.S.C (Science)	1987	Comilla	Second	55.9
B.Sc.Ag.	1991 (Held in 1995)	Bangladesh Agricultural University, Mymensingh	First	62.0
M.S. in Crop Botany	1996	Bangladesh Agricultural University, Mymensingh	First (A Grade)	70.2
Ph.D. in Genetics and Plant Breeding	2012	Bangladesh Agricultural University, Mymensingh	Passed	-

12. Training:

SN	Training Title	Starting Date	Ending Date	Duration	Institute
In-country					
1	Seed Production and Homestead Gardening	07-02-1998	18-02-1998	12 days	Proshika Dhaka
2	Rice Breeding and Hybrid Rice Development	21-03-1999	24-03-1999	04 days	BRRI Gazipur
3	Rice Production, Communication and Office Management	12-07-1999	09-09-1999	02 months	BRRI Gazipur
4	Conduct, Discipline and Protocol	08-05-2000	18-05-2000	11 days	RPATC Rajshahi
5	Foundation Training Course	05-11-2000	18-02-2001	3.5 months	BARD Comilla
6	Hybrid Rice Cultivation and Management Practices	28-02-2001	01-03-2001	02 days	BRRI Gazipur
7	Breeder Seed Production	02-12-2001	06-12-2001	05 days	BRRI Gazipur
8	Technique of Agricultural Technology Transfer	28-05-2003	29-05-2003	02 days	AIS Comilla
9	Success Case Replication	29-06-2003	06-07-2003	08 days	BRRI Gazipur
10	Disaster Management	30-07-2005	30-07-2005	01 day	BARD Comilla
11	Breeder Seed Production and Preservation	20-11-2005	22-11-2005	03 days	BRRI Gazipur
12	Awareness Building on the Recent Advances of Agricultural Biotechnology and Biosafety	05-02-2006	06-02-2006	02 days	BARD Comilla
13	Conservation and Utilization of Plant Genetic Resources	09-04-2007	12-04-2007	04 days	BARI Gazipur
14	Basic Plant Breeding for Agricultural Researchers	03-06-2012	14-06-2012	12 days	BSMRAU Gazipur
15	Theoretical and Applied Molecular Breeding	24-09-2012	29-09-2012	06 days	BRRI Gazipur
16	Project Development and Management	10-02-13	14-02-13	05 days	BARC Dhaka
17	Biosafety Measures in Transgenic Crop	30-03-15	31-03-15	02 days	BARC Dhaka
18	Advanced Microsoft Excel & Advanced Microsoft Power Point	03-06-16	05-06-16	03 days	BIM Dhaka
19	Design and Analysis of Breeding Trials using Plant Breeding Tools (PBTools)	15-01-17	18-01-17	04 days	BRRI Gazipur
20	Crossing Design of BRRI's Breeding Program using GBS Profiles	07-05-17	08-05-17	02 days	BRRI Gazipur
21	Application of Dry Store technology on rice seed	09-05-17 18-10-17	09-05-17 18-10-17	01 day 01 day	BRRI Gazipur
22	P-rep Design	05-12-17	05-12-17	01 day	BRRI Gazipur
23	Practical workshop for high-throughput sampling and analysis	18-10-18	19-10-18	02 days	BRRI Gazipur

24	Institutional Biosafety Officer Training Program	December, 2021	February, 2023	08 days	BRAC CDM Gazipur
25	BMZ heat project closure workshop and grain quality phenotyping, genomic selection and advanced breeding training	25-06-24	28-06-24	4 days	BRRI Gazipur
Abroad					
26	Developing Integrated Nutrient Management Options for Delivery	24-02-2003	07-03-2003	12 days	IRRI Philippines
27	English for Conversation	24-02-2003	06-03-2003	11 days	IRRI Philippines
28	Agro and Biotechnology	09-05-2007	28-05-2007	20 days	NATESC China
29	Marker Assisted Introgation of Drought Grain Yield QTLs in BR11	24-06-2013	18-09-2013	3 months	IRRI Philippines
30	Product profiling for rice varieties in Bangladesh	22-10-2016	04-11-2016	14 days	IRRI Philippines
31	Three session long B4R training	September, 2020	October, 2020	3 days	IRRI Philippines (Online)

13. Experience:

Sl. No.	Job Title	Joining Date	Ending Date	Duration	Institute
1	Scientific Officer	28-02-1999	11-01-2011	11.87 years	BRRI Gazipur
2	Senior Scientific Officer	12-01-2011	30-01-2019	8.05 years	BRRI Gazipur
3	Principal Scientific Officer	31-01-2019	05-12-2023	4.85 years	BRRI Gazipur
4	Chief Scientific Officer	06-12-2023	To date	-	BRRI Gazipur

14. Publication:

A. List of paper published in Peer Reviewed Reputed International Journal as principal author

Sl. No.	Authors &Title
1	**Kader M. A**., A. K. Patwary, M. M. Hossain and R. R. Majumder. 2015. Study on heterosis of some experimental hybrids in rice. Scientia Agriculture. 12(3): 135-143.
2	**Kader M. A**., A. K. Patwary, M. M. Hossain, T. K. Hore and M. M. Haque. 2017. Determination of seeding interval of most promising patental lines of hybrid rice. Saudi J. Life Sci. 2(1): 1-5.
3	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Horeand A. Amin. 2018. BRRI dhan63: Exportable premium quality rice like Soru Balam suitable for boro season in Bangladesh. J. of Plant Sciences. 6(5): 173-178.
4	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Hore and A. Amin. 2018. Development of high yielding aromatic rice variety BRRI dhan70 for wet season of Bangladesh. J. of Life Sciences. 12: 203-213.

5	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Hore and M. E. Haq. 2020. Early maturing drought tolerant rice variety BRRI dhan71 suitable for drought prone environment in Bangladesh. Intl. J. of Plant and Soil Science. 32(12): 1-11.
6	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Hore and M. E. Haq. 2020. BRRI dhan80: High yielding jasmine type aromatic rice variety for wet season of Bangladesh. European J. of Nutrition and Food Safety. 12(9): 126-137.
7	**Kader M. A**., P. S. Biswas, T. L. Aditya, M. Anisuzzaman, T. K. Hore and M. E. Haq. 2020. Zinc enriched high yielding rice variety BRRI dhan84 for dry season rice growing areas of Bangladesh. Asian Plant Research J. 6(1): 6-13.
8	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Hore, A. K. M. Shalahuddin and M. E. Haq. 2020. Development of rice varieties BRRI dhan93, BRRI dhan94 ans BRRI dhan95 for rainfed lowland ecosystem of Bangladesh. J. of Agricultural Science and Practice (Integrity Research Journals). 5(6): 224-233.
9	**Kader M. A**., A. K. M. Shalahuddin, T. K. Hore, R. R. Majumder, M. E. Haq, K. Fatema, P. S. Biswas and K. M. Iftekharuddaula. 2021. BRRI dhan100: A Zinc enriched rice variety suitable for irrigated ecosystem in Bangladesh. Asian Plant Research J. 8(1): 1-8.
10	**Kader M. A**., A. K. M. Shalahuddin, T. K. Hore, R. R. Majumder, S. M. T. Islam, M. E. Haq, U. R. Shaha, K. Fatema, P. S. Biswas and K. M. Iftekharuddaula. 2023. BRRI dhan102: An irrigated ecosystem-friendly Zinc-enriched rice variety for Bangladesh. J. Exp. Agric. Int. 45(4): 21-27.
11	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, K. Fatema and A. K. M. Shalahuddin. 2023. BRRI dhan104: BRRI's basmati type aromatic rice variety for irrigated ecosystem in Bangladesh. Asian J. of Adv. Agric. Res. 22(4): 34-42.
12	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, and A. K. M. Shalahuddin. 2024. BRRI dhan107: High protein premium quality rice variety for irrigated ecosystem in Bangladesh. Asian J. of Res. in Crop Sci. 9(2): 54-63.
13	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, A. K. M. Shalahuddin, S. Akter, Z. Alam and M. Kamruzzaman. 2024. Dataset on developing low glycemic index rice variety suitable for irrigated ecosystem in Bangladesh. Data in Brief (ELSEVIER). 55: 110757.

B. List of paper published in Peer Reviewed Reputed International Journal as co-author

Sl. No.	Authors &Title
1	Anisuzzaman M., **M. A. Kader**, M. G. Ali, M. M. Haque and T. Halder. 2016. Development of high yielding rice varieties for favorable ecosystem with 40% higher yield than the present variety. Middle-East J. of Scientific Res. 24(11): 3644-3653.
2	Amin A., K. M. Iftekharuddaula, A. Sarker, **M. A. Kader**, A. H. Talukder, T. L Aditya, M. A. Ali and M. S. Kabir. 2018. Exploration of SNORKEL1 (SK1) and SNORKEL2 (SK2) QTLs in deep water rice germplasm through genotyping and in-silico approach. American J. of Plant Biology. 3(4): 33-40.
3	Biswas P. S., B. P. M. Swamy, **M. A. Kader**, M. A. Hossain, R. Boncodin, M. Samia, M. L. Hassan, M. Wazuddin, D. MacKenzie and R. Reinke. 2021. Development and field evaluation of near-isogenic lines of GR2-E BRRI dhan29 golden rice. Front. Plant. Sci. (Frontiers). 12: 619739.
4	Swamy B. P. M., S. Marundan Jr, M. Samia, R. L. Ordonio, D. B. Rebong, R. Miranda, A. Alibuyog, A. T. Rebong, M. A. Tabil, R. R. Suralta, A. A. Alfonso, P. S. Biswas, **M. A. Kader,** R. F. Reinke, R. Boncodin and D. J. MacKenzie. 2021. Development and characterization of GR2E golden rice introgression lines. Scientific Reports (Nature Portfolio). 11: 2496.
5	Shaha U. R., N. A. Ivy, M. S. Raihan, J. U. Ahmed and **M. A. Kader**. 2023.

	Development of zinc enriched hybrid rice utilizing cytoplasmic male sterile (CMS) system. The Int. J. Business Management and Technology. 7(3): 191-204.
6	Hore T. K., C. H. Balachiranjeevi, M. A. Inabangan-Asilo, C. A. Deepak, A. D. Palanog, J. E. Hernandez, G. B. Gregorio, T. U. Dalisay, M. G. Q. Diaz, R. F. Neto, **M. A. Kader**, P. S. Biswas and B. P. M. Swamy. 2024. Genomic prediction and QTL analysis for grain Zn content and yield in Aus-derived rice populations. J. of Plant Biochemistry and Biotechnology (Springer). 33(2): 216-236.
7	Kamruzzaman M., H. B. Shozib, **M. A. Kader**, K. M. Iftekharudaula, M. A. Rahman, L. F. Lipi, M. A. R. Khan and M. S. Kabir. 2024. Progress of healthier rice development in Bangladesh: A review. J. of Food Composition and Analysis (ELSEVIER). 139(2025): 107082.
8	Ruhi N. T., M. R. Karim, R. R. Majumder, M. I. H. Joy and **M. A. Kader**. 2025. Agronomic performance of premium quality advanced breeding lines of indica rice. Asian J. of Res. in Crop Science. 10(1): 95-103.

C. List of paper published in Other Journals (National/Int'l) as principal author

Sl. No.	Authors &Title
1	**Kader M. A.**, M. A. H. Khan, M. A. Hasan and S. Khondker. 2000. Effect of Jute-Sesbania Association on Growth and Yield of Jute & Soil Properties. Bangladesh J. Agril. Sci. 27(1): 77-81.
2	**Kader M. A.**, M. A. Mazid, J. C. Biswas, M. K. Bashar and M. S. R. Bhuiyan. 2001. Adaptability of BRRI Released Transplant Aman Rice Varieties in North West of Bangladesh. J. Agric. Sci. Tech. 2(2): 20-23.
3	**Kader M. A.**, N. Ahmed, A. W. Julfiquar and M. A. mazid. 2001. Study on Flowering Behavior and Relation with Climatic Factors of Some Selected Promising Parental Lines of Hybrid Rice. Progress. Agric. 12(1&2): 105-109.
4	**Kader M. A.**, M. A. Mazid, B. Karmakar, M. Hossain and A. W. Julfiquar. 2002. Synchronization in Flowering of Parental Lines of Hybrid Rice by Phosphorous Fertilizer. J. Bio-Sci. 10: 65-69.
5	**Kader M. A.**, M. A. Mazid, M. K. Bashar, M. Hossain and A. W. Julfiquar. 2003. Effect of Application of GA_3 on CMS Seed Production in Rice. Bangladesh J. Pl. Breed. Genet. 16(2): 45-50.
6	**Kader M. A.** 2003. Synchronization of Flowering in Parental Lines of Hybrid Rice by Urea Application. Bangladesh J. Agril. Sci. 30(2): 241-246.
7	**Kader M. A.**, M. A. Mazid, B. Karmakar, N. Ahmed and A. W. Julfiquar. 2004. Performance of Promising Rice Hybrids in Northern-West Part of Bangladesh Under Irrigated Ecosystem. Bangladesh J. Agril. Sci. 30(2): 295-298.
8	**Kader M. A**., N. Ahmed, M. A. Mazid, B. Karmakar and A. W. Julfiquar. 2005. Development of Hybrid Rice Seed Production Technology for Farmers Field. Bangladesh J. of Agril. Sci. 32(2): 141-146.
9	**Kader M. A**., A. K. Patwary, M. M. Hossain and T. K. Hore. 2013. Study on floral biology of parental lines of hybrid rice. Bangladesh J. Crop Sci. 24: 33-46.
10	**Kader M. A**., A. K. Patwary, M. M. Hossain and R. R. Majumder. 2013. Performance of sixty experimental hybrid genotypes of rice in irrigated ecosystem of Bangladesh. Bangladesh J. Crop Sci. 25: 147-159.
11	**Kader M. A**., A. K. Patwary, M. M. Hossain and T. K. Hore. 2014. Combining ability analysis of rice (*O. Sativa* L.) to identify promising parental lines and heterotic hybrids. Bangladesh J. Crop Sci. 25: 121-132.
12	**Kader M. A**., T. L. Aditya, R. R. Majumder, T. K. Hore, A. K. M. Shalahuddin and A. Amin. 2019. Development of drought tolerant rice variety BRRI dhan66 for rainfed lowland ecosystem of Bangladesh. Bangladesh Rice J. 23(1):45-55.

D. List of paper published in Other Journals (National/Int'l) as co-author

Sl. No.	Authors & Title
1	Khondker S., M. A. Newaz and **M. A. Kader**. 2000. Genetic Analysis in Diallel Population of Lablab Bean Treated with and without Added Nutrients. Bangladesh J. Agril. Sci. 27(2): 163-170.
2	Islam M. S., M. S. U. Bhuiya, M. A. R. Sarkar and **M. A. Kader**. 2000. Effect of Variety and Storing Time of Seedling on the Yield of Boro Rice. Bangladesh J. Genet. Biotech. 1(1): 9-14.
3	Hossain M., M. A. Mazid, M. A. Begum, **M. A. Kader** and B. Sikdar. 2001. Effect of Variety and Seedling Age on the Yield of Hybrid Rice. Bangladesh J. Genet. Biotech. 1(1&2): 9-14.
4	Karmakar B., **M. A. Kader**, B. Sikdar and M. Hossain. 2001. Agronomic Responses of Hybrid and Inbred Rice to Nitrogen. J. Bio-Sci. 9: 31-38.
5	Karmakar B., M. A. Mazid, M. A. Ali, **M. A. Kader** and B. Sikdar. 2002. Varietal Performance of Hybrid and Inbred Rice Affected by Different Level of Nitrogen. Bangladesh J. Genet. Biotech. 3(1&2): 21-24.
6	Ahmed N., Z. Islam and **M. A. Kader**. 2003. Identification of Resistance Sources of Rice Against Populations of Rice Gall Midge, *Orseolia Oryzae* (Wood-Mason) (Diptera: Cecidomyiidae). Bangladesh J. Entomol. 13(1): 33-42.
7	Hossain M., M. A. Mazid, **M. A. Kader**, M. M. Kamal, M. A. T. Mia and I. U. Mollah. 2003. Effect of Soil Solarization and Nematicide on Soil Parasitic Nematode in Direct Seeded Rice-Wheat System. The Agriculturists. 1(1): 47-52.
8	Aditya T. L., M. A. Salam, H. U. Ahmed, M. Khatun, A. A. Mahbub, M. E. Haque, **M. A. Kader,** K. M. Iftekharuddaula, M. R. Islam and A. R. Bhuiyan. 2010. BRRI dhan49: A Complimentary Variety to BR11 and Supplementary Variety to BRRI dhan32 in Rainfed Low Land Rice Environment. Bangladesh Rice J. 15(1): 57-61.
9	Majumder R. R., R. K. Ray, **M. A. Kader**, T. L. Aditya and A. Ansari. 2013. Variability, correlation and path analysis in maintainer lines of aromatic rice for out crossing traits. Bangladesh J. Crop Sci. 25: 139-146.
10	Majumder R. R., T. K. Hore, **M. A. Kader** and T. L. Aditya. 2016. Genotype and environment interaction of drought tolerant rice genotypes evaluated in drought prone area of Bangladesh. J. Bangladesh Agril. Univ. 14(1): 23-30.
11	Shaha U. R., N. A. Ivy, M. S. Raihan and **M. A. Kader**. 2023. Combining ability analysis of hybrid rice (*Oryza sativa* L.) parental lines for yield, grain quality and grain Zinc content. Bangladesh Rice J. 27(1): 61-73.

E. List of books as principal author

Sl. No.	Authors &Title
1	**Kader M. A.,** P. S. Biswas and M. A. Momin. 2018. Answers of the questions on golden rice (Bengali and English Combined). Bangladesh Rice Research Institute, Gazipur, Bangladesh.
2	**Kader M. A.** and M. A. Momin. 2020. Usual questions on golden rice (Bengali). Bangladesh Rice Research Institute, Gazipur, Bangladesh.
3	**Kader M. A.** and M. A. Momin. 2020. Golden Rice: Frequently asked questions (English). Bangladesh Rice Research Institute, Gazipur, Bangladesh.

F. List of books as co-author

Sl. No.	Authors &Title
1	Uddin M. J., A. H. M. I. Ahmed, A. T. M. H. Islam, M. N. Islam, A. Kader and **M. A. Kader**. 2009. Modern Agricultural Technology – 1. Published by M. G. Kibria, Comilla, Bangladesh.
2	Uddin M. J., A. H. M. I. Ahmed, A. T. M. H. Islam, M. N. Islam, M. I Ali, A. Kader and **M. A. Kader**. 2009. Modern Agricultural Technology – 2. Published by M. K. Hossain and S. Islam, Comilla, Bangladesh.
3	Islam A. K. M. S., M. T. Islam, M. S. Rahman and **M. A. Kader**. 2016. Selective mechanization in rice cultivation for enhancing productivity. Bangladesh Rice Research Institute, Gazipur, Bangladesh.
4	Saiyed I., **M. A. Kader**, A. Salahuddin, M. Rahman, S. M. Haque, N. Magor and R. Reinke. 2023. Healthier Rice Program Bangladesh- Progress on research and development. International Rice Research Institute, Bangladesh Office, Bangladesh.
5	Magor N. P., A. Salahuddin, M. C. Rahman, M. A. B. Siddique, **M. A. Kader**, I. M. Saiyed, M. S. Kabir and R. F. Reinke. 2025. Chapter 7: A collective impact approach for the deployment of golden rice in Bangladesh.

G. List of bulletins/leaflets/folders/popular article as principal author

Sl. No.	Authors &Title
1	**Kader M. A.** 2001. Contribution of Hybrid Rice. The poetry published in Souvenir of foundation training course at BARD (in Bengali). P. 34.
2	**Kader M. A.** 2003. Increasing Hybrid Rice Seed Yield and Some Information. The Daily Rupashi Bangla, 23 November, 2003 (in Bengali).
3	**Kader M. A.** 2003. Urea Application in Rice Field by Leaf Color Chart (LCC). The Daily Rupashi Bangla, 21 December, 2003 (in Bengali).
4	**Kader M. A.** 2004. Means of Increasing Hybrid Rice Seed yield. Krishi Biplob. 21 30 December 2003 – 13 January 2004 (in Bengali).
5	**Kader M. A.** 2008. Increasing Hybrid Rice Seed yield. Krishi Kotha. 67(10): 292-293. (in Bengali).
6	**Kader M. A.**, T. L. Aditya, R. R. Majumder and T. K. Hore. 2016. BRRI dhan63: An exportable boro rice variety like slender balam (in Bengali).
7	**Kader M. A.**, T. L. Aditya, R. R. Majumder and T. K. Hore. 2016. BRRI dhan66: A drought tolerant modern transplant aman variety developed by BRRI (in Bengali).
8	**Kader M. A.**, T. L. Aditya, R. R. Majumder and T. K. Hore. 2016. BRRI dhan70: An exportable aromatic slender transplant aman rice variety like basmati (in Bengali).
9	**Kader M. A.**, T. L. Aditya, R. R. Majumder and T. K. Hore. 2016. BRRI dhan71: A severe drought tolerant modern transplant aman variety developed by BRRI (in Bengali).
10	**Kader M. A.**, M. A. Momin and A. Amin. 2018. Golden rice – A promising technology to combat vitamin-A deficiency (in Bengali).
11	**Kader M. A.**, T. L. Aditya, R. R. Majumder and T. K. Hore. 2018. Production technology of zinc enriched boro rice variety BRRI dhan 84 (in Bengali).
12	**Kader M. A.**, P. S. Biswas, M. Anisuzzaman and T. L. Aditya. 2018. BRRI dhan80: Production technology of exportable jasmine type aromatic aman rice (in Bengali).
13	**Kader M. A.**, J. K. Biswas and S. Haq. 2018. Healthier rice better life. SABP Newsletter. 15(7):4.
14	**Kader M. A.** 2019. Current status of golden rice research in Bangladesh. SABP Newsletter. 16(2):2.

15	**Kader M. A.,** T. L. Aditya, T. K. Hore, R. R. Majumder and A. K. M. Shalahuddin. 2019. New rice varieties BRRI dhan93, BRRI dhan94 and BRRI dhan95. BRRI Newsletter (Dhan Gobeshona Somacher). 30(2):1.
16	**Kader M. A.,** M. A. Momin and M. H. Roni. 2020. Rice Bio-fortification – An effective way to fulfill nutritional demand (in Bengali).
17	**Kader M. A.,** M. A. Momin and M. H. Roni. 2020. What is the difference between Golden Rice and general rice (in Bengali).
18	**Kader M. A.** and M. A. Momin. 2020. Golden Rice – An effective technique to solve Vitamin-A deficiency problem in Bangladeshi people (in Bengali).
19	**Kader M. A.** and M. A. Momin. 2020. Golden Rice – For improving the status of Vitamin-A in Bangladesh.
20	**Kader M. A.,** R.R. Majumder, T. K. Hore, A. K. M. Shalahuddin, M. E. Haque, S. M. T. Islam, K. Fatema, P. S. Biswas and K. M. Iftekharuddaula. 2021. BRRI dhan100 – Zinc enriched rice variety for boro season. BRRI Newsletter (Dhan Gobeshona Somacher). 32(1):5.
21	**Kader M. A.,** M. A. Momin and A. R. Anik. 2021. BSAFE Foundation Webinar discusses the status of golden rice in Bangladesh. SABP Newsletter. 18(8):3.
22	**Kader M. A.** 2021. Bangabandhu dhan100 is a gift of Bangladesh Rice Research Institute in Mujib Centennial.
23	**Kader M. A.**, R. R. Majumder, U. R. Shaha, K. Fatema, S. M. T. Islam and A. K. M. Shalahuddin. 2022. Production technology of zinc enriched boro rice variety Bangabandhu dhan100 (in Bengali).
24	**Kader M. A.**, R. R. Majumder, U. R. Shaha, K. Fatema, S. M. T. Islam and A. K. M. Shalahuddin. 2022. Production technology of zinc enriched boro rice variety BRRI dhan102 (in Bengali).
25	**Kader M. A.,** R. R. Majumder, T. K. Hore, U. R. Shaha, K. Fatema, A. K. M. Shalahuddin, S. M. T. Islam, P. S. Biswas and K. M. Iftekharuddaula. 2022. BRRI develops five new high yielding rice varieties (BRRI dhan102). BRRI Newsletter (Dhan Gobeshona Somacher). 33(1):1&5.
26	**Kader M. A.,** R. R. Majumder, U. R. Shaha, K. Fatema, A. K. M. Shalahuddin, T. K. Hore and K. M. Iftekharuddaula. 2022. New basmati type aromatic rice BRRI dhan104. BRRI Newsletter (Dhan Gobeshona Somacher). 33(1):2.
27	**Kader M. A.**, R. R. Majumder, T. K. Hore, U. R. Shaha, A. K. M. Shalahuddin and K. Fatema. 2023. Production technology of premium quality aromatic boro rice variety BRRI dhan104 (in Bengali).
28	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, K. Fatema, A. K. M. Shalahuddin and K. M. Iftekharuddaula. 2023. Low GI rice variety BRRI dhan105 for controlling diabetics. BRRI Newsletter (Dhan Gobeshona Somacher). 33(2):2.
29	**Kader M. A.**, R. R. Majumder, T. K. Hore, U. R. Shaha and A. K. M. Shalahuddin. 2024. Production technology of Low GI (Diabetics rice) boro rice variety BRRI dhan105 (in Bengali).
30	**Kader M. A.**, R. R. Majumder, T. K. Hore, U. R. Shaha and A. K. M. Shalahuddin. 2024. Production technology of high protein premium quality boro rice variety BRRI dhan107 (in Bengali).
31	**Kader M. A.** 2024. Our aim is to implement strategies that will enhance agricultural productivity, sustainability and resilience. The REFLECTOR. 13(4):9-10.
32	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, and K. M. Iftekharuddaula. 2024. BRRI developed high protein premium quality new rice variety BRRI dhan107. BRRI Newsletter (Dhan Gobeshona Somacher). 34(1):7.

H. List of bulletins/leaflets/folders/popular article as co-author

Sl. No.	Authors &Title
1	Mazid M. A., M. Hossain, **M. A. Kader** and B. Karmakar. 1999. Modern Cultivation Method in Early Aman Rice-Chickpea System to Escape Drought in Rainfed High Barind Area (in Bengali).
2	Mazid M. A., **M. A. Kader**, C. Riches and M. Mortimar. 2002. Factsheet-Herbicide use in Rice (in Bengali).
3	Mazid M. A., **M. A. Kader**, C. Riches and M. Mortimar. 2002. Improving Farmer's Livelihood in Bangladesh-Resolving the Problem of Yield Gaps due to Weeds (in Bengali).
4	Latif M. A., M. R. Islam and **M. A. Kader**. 2004. Prospect of System of Rice Intensification (SRI) in Seed Production in Boro Season (in Bengali).
5	Latif M. A., **M. A. Kader**, M. A. Hossain and P. K. S. Ray. 2004. Rice Blast Disease and Its Control (in Bengali).
6	Latif M. A., **M. A. Kader**, M. A. Hossain and P. K. S. Ray. 2004. Bakanae: A Harmful and Major Disease of Rice (in Bengali).
7	Saha Ray P. K. and **M. A. Kader**. 2008. Introduction on Bangladesh Rice Research Institute. Published in Souvenir of agricultural Technology Fair – 2008. P. 23.
8	Roy B. P., M. S. Islam, **M.A. Kader**, R. R. Majumder and P. C. Barman. 2015. Production technology of drought tolerant early aman variety to combat drought in northern part of Bangladesh (in Bengali).
9	Rahman M. A., P. S. Biswas, **M. A. Kader**, M. R. A. Sarker, R. R. Majumder, T. K. Hore, M. Anisuzzaman, M. M. haque, M. Khatun and T. L. Aditya. 2015. Four new rice varieties. BRRI Newsletter (Dhan Gobeshona Somacher). 26(3):2.
10	Momin M. A. and **M. A. Kader.** 2017. BRRI workshop on data collection and compliance management of golden rice CFTs. SABP Newsletter. 14(3):2.
11	Aditya T. L., M. Anisuzzaman, A. Rahman, **M. A. Kader** and M. R. A. Sarker. 2018. BRRI dhan81: The complementary variety of popular BRRI dhan28 and local Zira for boro season (in Bengali).
12	Aditya T. L., **M. A. Kader,** R. R. Majumder, T. K. Hore and H. U. Ahmed. 2019. BRRI dhan58: The complementary variety of BRRI dhan29 for boro season (in Bengali).
13	Aditya T. L., **M. A. Kader,** R. R. Majumder, T. K. Hore and H. U. Ahmed. 2019. BRRI dhan63: An exportable fine rice varity for boro season (Soru Balam) (in Bengali).
14	Kabir, M. S., **M. A. Kader** and M. A. Momin. 2021. BRRI developed Zinc enriched rice: Rice supply human nutrition (in Bengali). Daily News Jai Jai Din. 28 February, 2021. P. 13.
15	Kabir M. S., **M. A. Kader** and M. A. Momin. 2021. High Zinc variety BRRI dhan100 as a gift of Mujib Centennial. Krishi Kotha. 80(12): 16-17. (in Bengali).
16	Kabir, M. S., **M. A. Kader** and M. A. Momin. 2022. Rice will meet up zinc deficiency (in Bengali). Dainik Bangla Banglar Krishi. 19 September, 2022.
17	Kabir M. S., **M. A. Kader** and M. A. Momin. 2022. Zinc enriched rice is sustainable solution to meet up Zinc deficiency. Krishi Kotha. Special Number, 16 October, World Food Day 2022: 30-31. (in Bengali).
18	Kabir M. S., **M. A. Kader** and M. A. Momin. 2023. Zinc enriched rice - a sustainable way to solve the Zinc deficiency in human body. The Monthly Krishi Suraksha. January 2023. 6(1): 25-26. (in Bengali).

I. List of proceedings of seminar/workshop and abstract as principal author

a) International

Sl. No.	Authors & Title
1	**Kader M. A.**, T. K. Hore, A. Amin, M. A. Momin, R. Reinke, M. Swamy, R. Boncodin and D. J. Mackenzie. 2018. Agronomic performance of GR2E BRRI dhan29 golden rice across multiple environments and growing seasons in Bangladesh. The paper presented as poster presentation at 6th annual South Asia biosafety conference in Bangladesh held on 15-17 September 2018.
2	**Kader M. A**., R. R. Majumder, T. K. Hore, U. R. Shaha, K. Fatema, A. K. M. Shalahuddin and K. M. Iftekharuddaula. 2023. BRRI dhan105: A high yielding low glycemic index rice suitable for the irrigated ecosystem of Bangladesh. The paper presented at the international rice congress 2023 held on 16-19 October 2023 in Manila, Philippines.

b) National

Sl. No.	Authors & Title
1	**Kader M. A.** 1999. Prospects of Two-Line Hybrid Rice in Bangladesh. The paper presented in Bangladesh Rice Research Institute Thursday Seminar on 09 September 1999.
2	**Kader M. A.**, M. A. Mazid and A. W. Julfiquar. 2002. Effect of Different Seed Production Components on Seed Yield of Hybrid Rice. The paper presented in National Workshop on Hybrid Rice Research and Development in Bangladesh-Progress and Future Strategies on 5-7 January 2002.
3	**Kader M. A.** and P. K. Saha Ray. 2006. Fine Rice Processing and Marketing. The paper presented in Regional Workshop on Fine Rice Production and Marketing of Comilla Region on 16 April 2006.
4	**Kader M. A.,** M. A. A. Mahbub and S. A. Islam. 2007. Agro and Biotechnology – An Experience in China. The paper presented in Bangladesh Rice Research Institute Thursday Seminar on 02 August 2007.
5	**Kader M. A.** 2013. Selection of Superior Parental Lines and Developing Heterotic Hybrids in Rice. The paper presented in Bangladesh Rice Research Institute Thursday Seminar on 17 January 2013.
6	**Kader M. A.** and T. K. Hore. 2013. Varietal characteristics of the drought tolerant rice varieties. The paper presented in Bangladesh Agricultural Development Corporation Regional Seminar at Rajshahi on 11 May 2013.
7	**Kader M. A**., T. K. Hore, R. R. Majumder, H. U. Ahmed and T. L. Aditya. 2014. BRRI dhan63 is a premium quality rice variety like balam. Bangladesh Rice Research Abstract. BRRI Gazipur. P.19.
8	**Kader M. A.**, T. K. Hore, R. R. Majumder, T. L. Aditya and M. S. Parvin. 2015. Research activity of drought tolerant rice variety development 2014-15. The paper presented in central workshop of IAPP at BRRI on 08 June 2015.
9	**Kader M. A**., K. M. Iftekharuddaula and Z. R. Moni. 2016. Overview of Integrated Agricultural Productivity Project (IAPP) – BRRI component. The paper presented in the regional workshop of Barisal of IAPP at Patuakhali on 27 February 2016.
10	**Kader M. A.**, K. M. Iftekharuddaula and Z. R. Moni. 2016. Achievement of Integrated Agricultural Productivity Project (IAPP) – BRRI component. The paper presented in the completion workshop of IAPP at BRRI Gazipur on 6 June 2016.
11	**Kader M. A.**, P. S. Biswas, H. U. Ahmed, M. A. Hossain, M. R. Islam, M. N. Bari, M. A. Siddiquee, T. K. Hore, A. Amin, M. M. Haque, M. K. A. Bhuiyan, M. P. Ali, M. A. Monsor, M. Iqbal, H. B. Shozib, N. Ferdous, M. Hossain, A. Islam, M. S.

	Mian, M. Rashid, M. Adil, S. Akter, F. Akter, M. Harun-Or-Rashid, M. A. Syed, A.T.M. S. Hossain, S. Maniruzzaman, H. R. Hera, G. S. Jahan, M. A. Latif, T. L. Aditya, M. A. Ali, M. S. Kabir, M. R. Reinke, M. Swamy, R. Boncodin, and D. J. MacKenzie. 2018. Updates of golden rice research in Bangladesh. The paper presented in special seminar at BRRI on 01 October 2018.

J. List of proceedings of seminar/workshop and abstract as co-author

a) International

Sl. No.	Authors & Title
1	Ahmed N., **M. A. Kader**, M. A. Mazid, and A. W. Julfiquar. 2002. Relationship Between Climatic Factors and Flowering Behavior of Some Promising Lines of Hybrid Rice and Development of Farmer's Field Level Hybrid Rice Seed Production Technology. The paper presented as poster presentation at First International Rice Congress in Beijing held on 16-20 September 2002.
2	Iftekharuddaula K. M., M. A. Rahman, M. Khatun, **M. A. Kader**, M. R. A. Sarker, A. K. M. Shalahuddin, T. L. Aditya, M. A. Ali, M. R. Islam, G. N. Atlin and M. S. Kabir. 2018. Provisional product profiles for flash flood prone environments in Bangladesh. The paper presented as poster presentation at workshop on transforming rice breeding: Breeding program modernization initiative in India held on 08-10 October 2018.
3	Iftekharuddaula K. M., M. A. Rahman, M. Khatun, **M. A. Kader**, M. R. A. Sarker, A. K. M. Shalahuddin, T. L. Aditya, M. A. Ali, M. R. Islam, G. N. Atlin and M. S. Kabir. 2018. Automation and digitization in BRRI breeding programme. The paper presented as poster presentation at workshop on transforming rice breeding: Breeding program modernization initiative in India held on 08-10 October 2018.
4	Iftekharuddaula K. M., M. A. Rahman, M. Khatun, **M. A. Kader**, M. R. A. Sarker, T. L. Aditya, M. A. Ali, J. V. Asbrouck, G. N. Atlin and M. S. Kabir. 2018. Drying bead technology in BRRI breeding programme. The paper presented as poster presentation at workshop on transforming rice breeding: Breeding program modernization initiative in India held on 08-10 October 2018.
5	Biswas P. S. and **M. A. Kader**. 2019. Biosafety credentials of GR2-E BRRI dhan29 golden rice. The paper presented as poster presentation at 7th annual South Asia biosafety conference in Bangladesh held on 14-16 September 2019.
6	Biswas J. K., M. A. Siddiquee, H. B. Shozib, **M. A. Kader** and M. S. Kabir. 2019. Golden rice and some biosafety issues: Bangladesh perspective. The paper presented at 14th Asia-Pacific Biorisk Conference in Bangladesh held on 17-20 September 2019.
7	Iftekharuddaula K. M., P. S. Biswas, M. Akhlasur Rahman, M. Khatun, **M. A. Kader**, M. R. A. Sarker, Sharmista Ghosal, M. A. Latif, R. Yasmeen, T. L. Aditya and M. S. Kabir. 2019. Molecular rice breeding at BRRI: Progress and way forward. The paper presented at 4th Innovations in Plant and Food Sciences & International Conference on Biotechnology in Health and Agriculture in Dhaka University, Bangladesh held on 11-13 November 2019.
8	Russell Reinke, M. Swamy, **M. A. Kader**, R. Ordonio, U. Susanto and E. Arocena. 2019. Rice biofortification – Progress and challenges in improving the nutrition value of rice. The paper presented at 3rd International Tropical Agriculture Conference in Australia held on 11-13 November 2019.
9	Russell Reinke, R. Bhowmick, A. Garcia, **M. A. Kader**, R. Ordonio and M. Pakker. 2021. The road to golden rice: Harnessing agricultural innovations for improved nutrition. Plant Biology 2021-ASPB 2021 Worldwide Summit July 19-23.
10	Iftekharuddaula**,** K. M., P. S. Biswas, M. A. Rahman, M. Khatun, **M. A. Kader**, M.

	R. A. Sarker, S. Ghosal, M. Anisuzzaman, T. K. Hore, H. Khatun, R. R. Majumder, M. M. E. Ahmed, S. K. Debsharma, N. Jahan, U. R. Shaha, M. Y. Khan, N. M. F. Rahman, M. Khalequzzaman and M. S. Kabir. 2023. Breeding program modernization through population improvement in rice. The paper presented at the international rice congress 2023 held on 16-19 October 2023 in Manila, Philippines.
11	Shaha, U. R., N. A. Ivy, M. S. Raihan, J. U. Ahmed and **M. A. Kader.** 2023. Development of zinc enrich hybrid rice utilizing cytoplasmic male sterile (CMS) system. The paper presented at the international rice congress 2023 held on 16-19 October 2023 in Manila, Philippines.
12	Pervin M. S., **M. A. Kader,** M. Khalequzzaman, and R. Yasmeen. 2023. Morpho-physiological characterization of advanced breeding lines of rice (Oryza sativa L.) genotypes under reproductive drough stress. The paper presented at the international rice congress 2023 held on 16-19 October 2023 in Manila, Philippines.
13	Matres, J. M., N. Oliva, **M. A. Kader**, G. M. Mota,M. J salcedo, V. Laluz, R. Gonzales, b. Enriquez, R. Reinke, K. R. Trijatmoko and I. Slamet-Loedin. 2023. Molecular and phenotypic characterization of a high Fe and Zn rice event. The paper presented at the international rice congress 2023 held on 16-19 October 2023 in Manila, Philippines.

b) National

Sl. No.	Authors & Title
1	Saha Ray P. K., **M. A. Kader** and P. K. Saha. 2005. Research Highlights of BRRI Regional Station, Comilla. The paper presented in Regional Research – Extension Review and Program Planning Workshop on 29-30 May 2005.
2	Saha P. K., **M. A. Kader** and P. K. Saha Ray. 2005. Varietal Response to Nitrogen Rates and Effect of USG Application in Rice Production. The paper presented in Regional Research – Extension Review and Program Planning Workshop on 29-30 May 2005.
3	Saha Ray P. K. and **M. A. Kader**. 2006. Characteristics and Production Techniques of Fine Rice Variety. The paper presented in Regional Workshop on Fine Rice Production and Marketing of Comilla Region on 16 April 2006.
4	Saha P. K., M. A. M. Miah, **M. A. Kader** and P. K. Saha Ray. 2006. Nitrogen, Phosphorus and Potassium Fertilizer Management for Rice Production in Comilla Region. The paper presented in Regional Research – Extension Review and Program Planning Workshop on 17-18 May 2006.
5	Aditya T. L., B. Karmakar, T. Islam, S. Pervin, R. R. Majumder, H. U. Ahmed, N. R. Sharma, M. Nasim, M. A. Ali, S. Islam, T. H. ansari, **M. A. Kader**, H. Amelia S. Haefele and A. Kumar. 2014. Progress on the development of drought tolerant rice varieties in rainfed lowland rice ecosystem in Bangladesh. The paper presented in Bangladesh Rice Research Institute Thursday Seminar on 13 March 2014.
6	Majumder R.R., **M. A. Kader**, T. K. Hore and T. L. Aditya. 2014. Progress of drought tolerant variety development. The paper presented in mid-term evaluation workshop of IAPP at BRRI on 06 May 2014.
7	Majumder R.R., **M. A. Kader**, T. K. Hore and T. L. Aditya. 2014. Progress of drought tolerant variety development. The abstract published in souvenir of 9th biennial conference of Plant Breeding and Genetics Society of Bangladesh at BARC, Dhaka on 25-26 October 2014.
8	Hossain M. A., **M. A. Kader**, A. I. Khan, R. R. Majumder, T. K. Hore and H. U. Ahmed. 2014. Development of disease resistant varieties. Bangladesh Rice Research Abstract. BRRI Gazipur. P.20.
9	Hore T. K., **M. A. Kader**, R. R. Majumder, H. U. Ahmed and T. L. Aditya. 2014.

	BR7611-5-3-2 is a promising breeding line: An alternative of BR11 mega variety. Bangladesh Rice Research Abstract. BRRI Gazipur. P.24.
10	Majumder R. R., **M. A. Kader,** T. K. Hore, H. U. Ahmed and T. L. Aditya. 2014. BRRI dhan66: a new drought tolerant variety for drought prone area of Bangladesh. Bangladesh Rice Research Abstract. BRRI Gazipur. P.28.
11	Aditya T. L., B. Karmakar, T. Islam, S. Pervin, R. R. Majumder, H. U. Ahmed, N. R. Sharma, M. Nasim, M. A. Ali, S. Islam, T. H. ansari, **M. A. Kader**, T. K. Hore, H. Amelia, S. Haefele and A. Kumar. 2014. Progress on the development of drought tolerant rice varieties in rainfed lowland rice ecosystem in Bangladesh. Bangladesh Rice Research Abstract. BRRI Gazipur. P.31.
12	Pervin M. S., T. Halder, M. Khalequzzaman, **M. A. Kader**, T. L. Aditya and R. Yasmeen. 2017. Genetic diversity and screening of rice (*Oryza sativa* L.) genotypes for drought tolerance at reproductive phase. The abstract published in souvenir of 10th biennial conference of Plant Breeding and Genetics Society of Bangladesh at BARC, Dhaka on 7 – 8 January 2017.
13	Rahman M. A., K. M. Iftekharuddaula, M. Khatun, **M. A. Kader**, M. Anisuzzaman, T. L. Aditya, M. R. Quddus, A. Amin, M. R. Islam, G. N. Atlin and M. A. Ali. 2018. Field Rapid Generation Advance (FRGA): an appropriate tool for step change breeding in rice variety development. The paper presented as poster presentation at workshop on transforming rice breeding: cutting edge breeding approaches in Bangladesh held on 23-24 October 2017.
14	Iftekharuddaula K. M., M. A. Rahman, M. Khatun, **M. A. Kader**, M. Anisuzzaman, T. L. Aditya, A. Amin, M. R. Islam, G. N. Atlin and M. A. Ali. 2018. Principle and practice of transforming rice breeding concept at BRRI. The paper presented as poster presentation at workshop on transforming rice breeding: cutting edge breeding approaches in Bangladesh held on 23-24 October 2017.

15. Technology developed and research program developed/supervised/executed

i) List of technology developed (Number – 69)

(a) Participated in the production technology development-7

1. Adjustment of flowering in parental lines of hybrid rice by P-fertilizers.
2. Adjustment of flowering in parental lines of hybrid rice by N-fertilizers.
3. Rate and timing of GA_3 application in CMS seed production.
4. Hybrid rice seed production technology in farmers field.
5. Rate of nitrogen for hybrid rice production.
6. Seedling age for hybrid rice production.
7. Weed control by herbicides.

(b) **Variety development as a leader/principal investigator- 17**

8. BRRI dhan63.
9. BRRI dhan66.
10. BRRI dhan70
11. BRRI dhan71
12. BRRI dhan80
13. BRRI dhan81
14. BRRI dhan82
15. BRRI dhan84
16. BRRI dhan90
17. BRRI dhan93
18. BRRI dhan94
19. BRRI dhan95
20. Bangabandhu dhan100
21. BRRI dhan102

22. BRRI dhan104
23. BRRI dhan105
24. BRRI dhan107

(c) Participated in the variety development-45

25. BRRI dhan42
26. BRRI dhan43
27. BRRI dhan44
28. BRRI dhan45
29. BRRI dhan46
30. BRRI dhan47
31. BRRI dhan48
32. BRRI dhan49
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43. BRRI dhan60
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58. BRRI dhan79
59. BRRI dhan83
60. BRRI dhan85
61. BRRI dhan88
62. BRRI dhan91
63. BRRI dhan97
64. BRRI dhan98
65. BRRI dhan99
66. BRRI dhan101
67. BRRI dhan106
68. BRRI dhan108
69. BRRI hybrid dhan1

ii) (a) List of research program developed (Number – 104)

1. Study on flowering behavior and relation with climatic factors of some selected promising parental lines of hybrid rice, Boro 1999-00.

2. Synchronization in flowering of parental lines of hybrid rice by phosphorous fertilizer, Boro 1999-00.
3. Synchronization in flowering of parental lines of hybrid rice by nitrogen fertilizer, Boro 1999-00.
4. Effect of application of GA_3 on CMS seed production in rice, Boro1999-00.
5. Development of hybrid rice seed production technology for farmers field, T. Aman 2000-01.
6. Varietal development program for Rajshahi region, T. Aman 1999-00.
7. Varietal development program for Rajshahi region, Boro 1999-00.
8. Varietal development program for Rajshahi region, T. Aman 2000-01.
9. Varietal development program for Rajshahi region, Boro 2000-01.
10. Varietal development program for Rajshahi region, T. Aman 2001-02.
11. Varietal development program for Rajshahi region Boro 2001-02.
12. Varietal development program for Rajshahi region, T. Aman 2002-03.
13. Varietal development program for Rangpur region, Boro 2002-03.
14. Varietal development program for Comilla region, T. Aman 2003-04.
15. Varietal development program for Comilla region, Boro 2003-04.
16. Varietal development program for Comilla region, T. Aman 2004-05.
17. Varietal development program for Comilla region, Boro 2004-05.
18. Varietal development program for Comilla region, T. Aman 2005-06.
19. Varietal development program for Comilla region, Boro 2005-06.
20. Varietal development program for Comilla region, T. Aman 2006-07.
21. Varietal development program for Comilla region, Boro 2006-07.
22. Varietal development program for Comilla region, T. Aman 2007-08.
23. Varietal development program for Comilla region, Boro 2007-08.
24. Study on floral biology of parental lines of hybrid rice (Ph.D program), Boro 2007-08.
25. Seed production of experimental rice hybrids (Ph.D program), Boro 2008-09.
26. Performance of experimental rice hybrids (Ph.D program), Boro 2009-10.
27. Combining ability analysis for selecting parents and hybrids (Ph.D program), Boro 2009-10.
28. Determination of heterosis for identifying heterotic hybrids in rice (Ph.D program), Boro 2009-10.
29. Determination of seeding interval of most promising parental lines of hybrid rice (Ph.D program), Boro 2009-10.
30. Development of rainfed lowland rice, T. Aman 2012-13.
31. Development of premium quality rice, T. Aman 2012-13.
32. Development of drought tolerant rice, T. Aman 2012-13.
33. Development of premium quality rice, Boro 2012-13.
34. Development of rainfed lowland rice, T. Aman 2013-14.
35. Development of premium quality rice, T. Aman 2013-14.
36. Development of drought tolerant rice, T. Aman 2013-14.
37. Development of premium quality rice, Boro 2013-14.
38. Development of rainfed lowland rice, T. Aman 2014-15.
39. Development of premium quality rice, T. Aman 2014-15.
40. Development of drought tolerant rice, T. Aman 2014-15.
41. Development of premium quality rice, Boro 2014-15.
42. Development of rainfed lowland rice, T. Aman 2015-16.
43. Development of premium quality rice, T. Aman 2015-16.
44. Development of drought tolerant rice, T. Aman 2015-16.
45. Development of premium quality rice, Boro 2015-16.
46. Development of rainfed lowland rice, T. Aman 2016-17.
47. Development of premium quality rice, T. Aman 2016-17.
48. Development of drought tolerant rice, T. Aman 2016-17.
49. Development of premium quality rice, Boro 2016-17.
50. Development of golden rice, Boro 2016-17.

51. Development of zinc enriched rice, Boro 2016-17.
52. Development of rainfed lowland rice, T. Aman 2017-18.
53. Development of drought tolerant rice, T. Aman 2017-18.
54. Development of golden rice, T. Aman 2017-18.
55. Development of zinc enriched rice, T. Aman 2017-18.
56. Development of premium quality rice, Boro 2017-18.
57. Development of golden rice, Boro 2017-18.
58. Development of zinc enriched rice, Boro 2017-18
59. Development of rainfed lowland rice, T. Aman 2018-19.
60. Development of drought tolerant rice, T. Aman 2018-19.
61. Development of golden rice, T. Aman 2018-19.
62. Development of zinc enriched rice, T. Aman 2018-19.
63. Development of premium quality rice, Boro 2018-19.
64. Development of golden rice, Boro 2018-19.
65. Development of zinc enriched rice, Boro 2018-19.
66. Development of rainfed lowland rice, T. Aman 2019-20.
67. Development of drought tolerant rice, T. Aman 2019-20.
68. Development of golden rice, T. Aman 2019-20.
69. Development of zinc enriched rice, T. Aman 2019-20.
70. Development of premium quality rice, Boro 2019-20.
71. Development of golden rice, Boro 2019-20.
72. Development of zinc enriched rice, Boro 2019-20.
73. Development of rainfed lowland rice, T. Aman 2020-21.
74. Development of drought tolerant rice, T. Aman 2020-21.
75. Development of golden rice, T. Aman 2020-21.
76. Development of zinc enriched rice, T. Aman 2020-21.
77. Development of premium quality rice, Boro 2020-21.
78. Development of golden rice, Boro 2020-21.
79. Development of zinc enriched rice, Boro 2020-21.
80. Development of rainfed lowland rice, T. Aman 2021-22.
81. Development of drought tolerant rice, T. Aman 2021-22.
82. Development of golden rice, T. Aman 2021-22.
83. Development of zinc enriched rice, T. Aman 2021-22.
84. Development of premium quality rice, Boro 2021-22.
85. Development of golden rice, Boro 2021-22.
86. Development of zinc enriched rice, Boro 2021-22.
87. Development of rainfed lowland rice, T. Aman 2022-23.
88. Development of drought tolerant rice, T. Aman 2022-23.
89. Development of golden rice, T. Aman 2022-23.
90. Development of zinc enriched rice, T. Aman 2022-23.
91. Development of premium quality rice, Boro 2022-23.
92. Development of golden rice, Boro 2022-23.
93. Development of zinc enriched rice, Boro 2022-23.
94. Development of rainfed lowland rice, T. Aman 2023-24.
95. Development of drought tolerant rice, T. Aman 2023-24.
96. Development of golden rice, T. Aman 2023-24.
97. Development of zinc enriched rice, T. Aman 2023-24.
98. Development of premium quality rice, Boro 2023-24.
99. Development of golden rice, Boro 2023-24.
100. Development of zinc enriched rice, Boro 2023-24.
101. Development of rainfed lowland rice, T. Aman 2024-25.
102. Development of drought tolerant rice, T. Aman 2024-25.
103. Development of golden rice, T. Aman 2024-25.

104. Development of zinc enriched rice, T. Aman 2024-25.

(b) List of research program supervised (Number – 104)

1. Study on flowering behavior and relation with climatic factors of some selected promising parental lines of hybrid rice, Boro 1999-00.
2. Synchronization in flowering of parental lines of hybrid rice by phosphorous fertilizer, Boro 1999-00.
3. Synchronization in flowering of parental lines of hybrid rice by nitrogen fertilizer, Boro 1999-00.
4. Effect of application of GA_3 on CMS seed production in rice, Boro1999-00.
5. Development of hybrid rice seed production technology for farmers field, T. Aman 2000-01.
6. Varietal development program for Rajshahi region, T. Aman 1999-00.
7. Varietal development program of RLRRC project at Rajshahi, T. Aman 1999-00.
8. Varietal development program for Rajshahi region, Boro 1999-00.
9. Varietal development program for Rajshahi region, T. Aman 2000-01.
10. Varietal development program of RLRRC project at Rajshahi, T. Aman 2000-01.
11. Varietal development program for Rajshahi region, Boro 2000-01.
12. Varietal development program for Rajshahi region, T. Aman 2001-02.
13. Varietal development program of RLRRC project at Rajshahi, T. Aman 2001-02.
14. Varietal development program for Rajshahi region Boro 2001-02.
15. Varietal development program for Rajshahi region, T. Aman 2002-03.
16. Varietal development program of RLRRC project at Rajshahi, T. Aman 2002-03.
17. Varietal development program for Rangpur region, Boro 2002-03.
18. Varietal development program for Comilla region, T. Aman 2003-04.
19. Varietal development program for Comilla region, Boro 2003-04.
20. Varietal development program for Comilla region, T. Aman 2004-05.
21. Varietal development program for Comilla region, Boro 2004-05.
22. Varietal development program for Comilla region, T. Aman 2005-06.
23. Varietal development program for Comilla region, Boro 2005-06.
24. Varietal development program for Comilla region, T. Aman 2006-07.
25. Varietal development program for Comilla region, Boro 2006-07.
26. Varietal development program for Comilla region, T. Aman 2007-08.
27. Varietal development program for Comilla region, Boro 2007-08.
28. Study on floral biology of parental lines of hybrid rice (Ph.D program), Boro 2007-08.
29. Seed production of experimental rice hybrids (Ph.D program), Boro 2008-09.
30. Performance of experimental rice hybrids (Ph.D program), Boro 2009-10.
31. Combining ability analysis for selecting parents and hybrids (Ph.D program), Boro 2009-10.
32. Determination of heterosis for identifying heterotic hybrids in rice (Ph.D program), Boro 2009-10.
33. Determination of seeding interval of most promising parental lines of hybrid rice (Ph.D program), Boro 2009-10.
34. Development of rainfed lowland rice, T. Aman 2012-13.
35. Development of premium quality rice, T. Aman 2012-13.
36. Development of drought tolerant rice, T. Aman 2012-13.
37. Development of premium quality rice, Boro 2012-13.
38. Development of rainfed lowland rice, T. Aman 2013-14.
39. Development of premium quality rice, T. Aman 2013-14.
40. Development of drought tolerant rice, T. Aman 2013-14.
41. Development of premium quality rice, Boro 2013-14.
42. Development of rainfed lowland rice, T. Aman 2014-15.
43. Development of premium quality rice, T. Aman 2014-15.
44. Development of drought tolerant rice, T. Aman 2014-15.
45. Development of premium quality rice, Boro 2014-15.

46. Development of rainfed lowland rice, T. Aman 2015-16.
47. Development of premium quality rice, T. Aman 2015-16.
48. Development of drought tolerant rice, T. Aman 2015-16.
49. Development of premium quality rice, Boro 2015-16.
50. Development of rainfed lowland rice, T. Aman 2016-17.
51. Development of premium quality rice, T. Aman 2016-17.
52. Development of drought tolerant rice, T. Aman 2016-17.
53. Development of premium quality rice, Boro 2016-17.
54. Development of golden rice, Boro 2016-17.
55. Development of zinc enriched rice, Boro 2016-17.
56. Development of rainfed lowland rice, T. Aman 2017-18.
57. Development of drought tolerant rice, T. Aman 2017-18.
58. Development of golden rice, T. Aman 2017-18.
59. Development of zinc enriched rice, T. Aman 2017-18.
60. Development of premium quality rice, Boro 2017-18.
61. Development of golden rice, Boro 2017-18.
62. Development of zinc enriched rice, Boro 2017-18
63. Development of rainfed lowland rice, T. Aman 2018-19.
64. Development of drought tolerant rice, T. Aman 2018-19.
65. Development of golden rice, T. Aman 2018-19.
66. Development of zinc enriched rice, T. Aman 2018-19.
67. Development of premium quality rice, Boro 2018-19.
68. Development of golden rice, Boro 2018-19.
69. Development of zinc enriched rice, Boro 2018-19.
70. Development of rainfed lowland rice, T. Aman 2019-20.
71. Development of drought tolerant rice, T. Aman 2019-20.
72. Development of golden rice, T. Aman 2019-20.
73. Development of zinc enriched rice, T. Aman 2019-20.
74. Development of premium quality rice, Boro 2019-20.
75. Development of golden rice, Boro 2019-20.
76. Development of zinc enriched rice, Boro 2019-20.
77. Development of rainfed lowland rice, T. Aman 2020-21.
78. Development of drought tolerant rice, T. Aman 2020-21.
79. Development of golden rice, T. Aman 2020-21.
80. Development of zinc enriched rice, T. Aman 2020-21.
81. Development of premium quality rice, Boro 2020-21.
82. Development of golden rice, Boro 2020-21.
83. Development of zinc enriched rice, Boro 2020-21.
84. Development of rainfed lowland rice, T. Aman 2021-22.
85. Development of drought tolerant rice, T. Aman 2021-22.
86. Development of golden rice, T. Aman 2021-22.
87. Development of zinc enriched rice, T. Aman 2021-22.
88. Development of premium quality rice, Boro 2021-22.
89. Development of golden rice, Boro 2021-22.
90. Development of zinc enriched rice, Boro 2021-22.
91. Development of rainfed lowland rice, T. Aman 2022-23.
92. Development of drought tolerant rice, T. Aman 2022-23.
93. Development of golden rice, T. Aman 2022-23.
94. Development of zinc enriched rice, T. Aman 2022-23.
95. Development of premium quality rice, Boro 2022-23.
96. Development of golden rice, Boro 2022-23.
97. Development of zinc enriched rice, Boro 2022-23.
98. Development of rainfed lowland rice, T. Aman 2023-24.

99. Development of drought tolerant rice, T. Aman 2023-24.
100. Development of golden rice, T. Aman 2023-24.
101. Development of zinc enriched rice, T. Aman 2023-24.
102. Development of premium quality rice, Boro 2023-24.
103. Development of golden rice, Boro 2023-24.
104. Development of zinc enriched rice, 2023-24.

(c) List of research program executed (Number – 104)

1. Study on flowering behavior and relation with climatic factors of some selected promising parental lines of hybrid rice, Boro 1999-00.
2. Synchronization in flowering of parental lines of hybrid rice by phosphorous fertilizer, Boro 1999-00.
3. Synchronization in flowering of parental lines of hybrid rice by nitrogen fertilizer, Boro 1999-00.
4. Effect of application of GA_3 on CMS seed production in rice, Boro1999-00.
5. Development of hybrid rice seed production technology for farmers field, T. Aman 2000-01.
6. Varietal development program for Rajshahi region, T. Aman 1999-00.
7. Varietal development program of RLRRC project at Rajshahi, T. Aman 1999-00.
8. Varietal development program for Rajshahi region, Boro 1999-00.
9. Varietal development program for Rajshahi region, T. Aman 2000-01.
10. Varietal development program of RLRRC project at Rajshahi, T. Aman 2000-01.
11. Varietal development program for Rajshahi region, Boro 2000-01.
12. Varietal development program for Rajshahi region, T. Aman 2001-02.
13. Varietal development program of RLRRC project at Rajshahi, T. Aman 2001-02.
14. Varietal development program for Rajshahi region Boro 2001-02.
15. Varietal development program for Rajshahi region, T. Aman 2002-03.
16. Varietal development program of RLRRC project at Rajshahi, T. Aman 2002-03.
17. Varietal development program for Rangpur region, Boro 2002-03.
18. Varietal development program for Comilla region, T. Aman 2003-04.
19. Varietal development program for Comilla region, Boro 2003-04.
20. Varietal development program for Comilla region, T. Aman 2004-05.
21. Varietal development program for Comilla region, Boro 2004-05.
22. Varietal development program for Comilla region, T. Aman 2005-06.
23. Varietal development program for Comilla region, Boro 2005-06.
24. Varietal development program for Comilla region, T. Aman 2006-07.
25. Varietal development program for Comilla region, Boro 2006-07.
26. Varietal development program for Comilla region, T. Aman 2007-08.
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32. Determination of heterosis for identifying heterotic hybrids in rice (Ph.D program), Boro 2009-10.
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36. Development of drought tolerant rice, T. Aman 2012-13.
37. Development of premium quality rice, Boro 2012-13.
38. Development of rainfed lowland rice, T. Aman 2013-14.
39. Development of premium quality rice, T. Aman 2013-14.
40. Development of drought tolerant rice, T. Aman 2013-14.

41. Development of premium quality rice, Boro 2013-14.
42. Development of rainfed lowland rice, T. Aman 2014-15.
43. Development of premium quality rice, T. Aman 2014-15.
44. Development of drought tolerant rice, T. Aman 2014-15.
45. Development of premium quality rice, Boro 2014-15.
46. Development of rainfed lowland rice, T. Aman 2015-16.
47. Development of premium quality rice, T. Aman 2015-16.
48. Development of drought tolerant rice, T. Aman 2015-16.
49. Development of premium quality rice, Boro 2015-16.
50. Development of rainfed lowland rice, T. Aman 2016-17.
51. Development of premium quality rice, T. Aman 2016-17.
52. Development of drought tolerant rice, T. Aman 2016-17.
53. Development of premium quality rice, Boro 2016-17.
54. Development of golden rice, Boro 2016-17.
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58. Development of golden rice, T. Aman 2017-18.
59. Development of zinc enriched rice, T. Aman 2017-18.
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64. Development of drought tolerant rice, T. Aman 2018-19.
65. Development of golden rice, T. Aman 2018-19.
66. Development of zinc enriched rice, T. Aman 2018-19.
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68. Development of golden rice, Boro 2018-19.
69. Development of zinc enriched rice, Boro 2018-19.
70. Development of rainfed lowland rice, T. Aman 2019-20.
71. Development of drought tolerant rice, T. Aman 2019-20.
72. Development of golden rice, T. Aman 2019-20.
73. Development of zinc enriched rice, T. Aman 2019-20.
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75. Development of golden rice, Boro 2019-20.
76. Development of zinc enriched rice, Boro 2019-20.
77. Development of rainfed lowland rice, T. Aman 2020-21.
78. Development of drought tolerant rice, T. Aman 2020-21.
79. Development of golden rice, T. Aman 2020-21.
80. Development of zinc enriched rice, T. Aman 2020-21.
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83. Development of zinc enriched rice, Boro 2020-21.
84. Development of rainfed lowland rice, T. Aman 2021-22.
85. Development of drought tolerant rice, T. Aman 2021-22.
86. Development of golden rice, T. Aman 2021-22.
87. Development of zinc enriched rice, T. Aman 2021-22.
88. Development of premium quality rice, Boro 2021-22.
89. Development of golden rice, Boro 2021-22.
90. Development of zinc enriched rice, Boro 2021-22.
91. Development of rainfed lowland rice, T. Aman 2022-23.
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93. Development of golden rice, T. Aman 2022-23.

94. Development of zinc enriched rice, T. Aman 2022-23.
95. Development of premium quality rice, Boro 2022-23.
96. Development of golden rice, Boro 2022-23.
97. Development of zinc enriched rice, Boro 2022-23.
98. Development of rainfed lowland rice, T. Aman 2023-24.
99. Development of drought tolerant rice, T. Aman 2023-24.
100. Development of golden rice, T. Aman 2023-24.
101. Development of zinc enriched rice, T. Aman 2023-24.
102. Development of premium quality rice, Boro 2023-24.
103. Development of golden rice, Boro 2023-24.
104. Development of zinc enriched rice, Boro 2023-24.

16. Outstanding Achievement

i) List of outstanding/notable research report (Number – 20)

SN	Title of the outstanding/notable research report
1	The job training on molecular breeding at IRRI during 21 June to 18 September 2013
2	Consortium for unfavorable rice environment (CURE) for review & planning and steering committe meeting at Danang, Vietnam on 8-10 April 2014
3	Agronomic and phenotypic characterization of Event IR-00GR2E-5 and non-transgenic control rice grown at multi-location Confined Field Trial during the 2017 Boro season in Bangladesh
4	Environmental Risk Assessment/Risk Management for Confined Field Trial of of pro-vitamin A enriched GR2E BRRI dhan29 golden rice at Gazipur, Barishal, Cumilla, Habiganj and Rajshahi in Boro 2017
5	Confined Field Trial of of pro-vitamin A enriched GR2E BRRI dhan29 golden rice at Gazipur, Barishal, Cumilla, Habiganj and Rajshahi in Boro 2018
6	Environmental Risk Assessment/Risk Management for Confined Field Trial of of pro-vitamin A enriched GR2E BRRI dhan29 golden rice at Gazipur, Barishal, Cumilla, Habiganj and Rajshahi in Boro 2017-18
7	Contained Trial (CT) High Iron and Zinc Rice (Event IRS495-274) at Gazipur in Boro 2019
8	Confined Field Trial of of pro-vitamin A enriched GR2E BRRI dhan29 golden rice at Gazipur, Barishal, Cumilla, Habiganj, Rajshahi, Rangpur, Satkhira and Sonagazi in Boro 2019
9	Environmental Risk Assessment/Risk Management for Confined Field Trial of GR2E BRRI dhan29 golden rice at Gazipur, Barishal, Cumilla, Habiganj, Rangpur, Rajshahi, Satkhira and Sonagazi in Boro 2018-19
10	Contained Trial ofthe advanced introgressed lines of High Iron and Zinc Rice (Event IRS1134-053, IRS1030-039, IRS1030-031 and IRS495-274) in Boro 2020
11	Agronomic and phenotypic characterization of High Iron and Zinc Rice (Event IRS1027-059) and non-transgenic control rice grown at Contained Trial during the 2020 T. Aman season in Bangladesh
12	Agronomic and phenotypic characterization of pro-vitamin A enriched GR2E BRRI dhan28 golden rice and pure lines of GR2E BRRI dhan29 golden rice (IR112060 GR2-E: 2-7-63-2- 96) grown at Contained Trial (CT) during the Boro 2020-21 season in Bangladesh

13	Agronomic and phenotypic characterization of pro-vitamin A enriched GR2E BRRI dhan49 golden rice and GR2E BRRI dhan62 golden rice grown at Contained Trial (CT) during the T. Aman 2021-22 season in Bangladesh
14	Agronomic and phenotypic characterization of High Iron and Zinc Rice (Event IRS1030-039, IRS1030-031 and IRS1027-059) and non-transgenic control rice grown at Confined Field Trial (CFT) during the 2020-21 Boro season in Bangladesh
15	Environmental Risk Assessment/Risk Management for Confined Field Trial of High Iron and Zinc Rice (Event IRS1030-039, IRS1030-031 and IRS1027-059) and non-transgenic control at Gazipur, Barishal, Habiganj, Rajshahi, Rangpur, Sonagazi and Satkhira in Boro 2020-21
16	Agronomic and phenotypic characterization of pro-vitamin A enriched GR2E BRRI dhan28 golden rice and pure lines of GR2E BRRI dhan29 golden rice (IR112060 GR2-E: 2-7-63-2- 96) grown at Contained Trial (CT) during the Boro 2021-22 season in Bangladesh
17	Agronomic and phenotypic characterization of pro-vitaminA enriched GR2E BRRI dhan49 golden rice and GR2E BRRI dhan62 golden rice grown at Contained Trial (CT) during the T. Aman 2022-23 season in Bangladesh
18	Agronomic and phenotypic characterization of High Iron and Zinc Rice (Event IRS1030-039, IRS1030-031 and IRS1027-059) and non-transgenic control rice grown at Confined Field Trial (CFT) during the 2021-22 Boro Season in Bangladesh
19	Environmental risk assessment/risk management for Confined Field Trial (CFT) of High Iron and Zinc Rice (Event IRS1030-039, IRS1030-031 and IRS1027-059) and non-transgenic control at Gazipur, Barishal, Habiganj, Rajshahi and Satkhira in Boro 2021-22)
20	Golden rice deployment in the Philippines in 2022

ii) **List of awards received (Number – 7)**

SN	Title of the award/honors received
1	National Science and Technology (NST) fellowship awarded for MS in 1996
2	BRRI scholarship awarded for PhD in 2007
3	BRRI Award 2015 for outstanding research in 2015
4	Bangabandhu National Agricultural Award 1422 Bangabdha in 2017 as a member of Plant Breeding Division, BRRI
5	Honorary certificate for continuation of research during Covit-19 situation in 2021 as a member of Plant Breeding Division, BRRI
6	HarvestPlus Appreciation Award for developing Bangabandhu dhan100 (BRRI dhan100) in 2021 as a member of Plant Breeding Division as well as Principal Investigator of HarvestPlus Project, BRRI
7	Best Agriculture Scientist Award of Ministry of Agriculture in 2023-24 financial year as APA index

iii) **List of other relevant achievement/information (Number of other relevant achievement/ information – 21)**

SN	Title of the other relevant achievement/information
1	Have research experience at Adaptation and Nutrition of Quality Protein Maize (QPM) Project in Bangladesh Agricultural University, Mymensingh for 18 months (July 1995 to

	December 1996)
2	Have job experience on micro-credit and seed production & homestead gardening of an NGO named Proshika for 7 months (November 1997 to May 1998)
3	Have research experience at Hybrid Rice Project in Bangladesh Rice Research Institute, Gazipur for 9 months (June 1998 to February 1999)
4	Have teaching experience at Rajshahi University as guest lecturer for 1 year
5	Completed 31 training courses on different field at home and abroad
6	Conducted many training for farmers, SAAO, Officers, Scientists and other stakeholders at BRRI and other Organization as resource speaker
7	Management of research station – Helped the Head of the regional station and plant breeding Division in different activities
8	Action plan preparation – Prepared work plan for varietal development program
9	Computer skill – Completed computer application course on MS Word, MS Excel, MS Power Point, Internet, MSSTAT, GENSTAT, SPSS, etc.
10	Worked as member in different national and institutional committee like field evaluation committee of National Seed Board, different national celebration committee etc. Handling different project like RLRRC, STRASA, CURE, IAPP, HarvestPlus, Golden Rice, TRB, AGGRi Alliance, PARTNER etc. as principal investigator and Co-investigator
11	Conducted different INGER trial as Cooperator
12	Experience on breeder seed and TLS production
13	Prepared many technical research reports
14	Conducted many radio talks at Bangladesh Betar
15	Assessed climatic factors for two-line hybrid rice in Bangladesh
16	Participated in flood rehabilitation program by seedling raising and distribution to the farmers
17	Completed the training course on motor driving having driving license
18	Participated in different national and international Workshop/Seminar/Symposium
19	Participated in different field day
20	Attended in program area and interaction meeting
21	Attended in ATC, DTC and District Coordination meeting

17. Field of Specialization:

Have specialization on molecular and conventional breeding, hybrid rice breeding, GMO and bio-fortification research. I lead field trials of transgenic and non-transgenic rice, marker assisted backcrossing in molecular biology laboratory and monitor research activities in transgenic greenhouse/ screenhouse of BRRI. I am a leader of the research programs namely Golden Rice, Zinc Enriched Rice, Rainfed Lowland Rice, Drought Tolerant Rice and Premium Quality Rice. I attended in various international and national on-the-job training viz. 'marker assisted introgression of drought grain yield QTLs in BR11' and 'product profiling for rice varieties in Bangladesh' at International Rice Research Institute (IRRI), Philippines. I have also specialization on Agronomy, Plant Physiology and Soil Science. I was Project Manager of Integrated Agricultural Productivity Project- BRRI Part (IAPP-BRRI). I was also a project leader of Golden Rice and HarvestPlus project for 6 years. Now I am an Agency Program Director of Program on Agricultural and Rural Transformation for Nutrition, Entrepreneurship and Resilience in Bangladesh (PARTNER) project-BRRI part.

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Cell: +88-01552340120, +88-01732442370