

**CV OF M. S. KABIR**  
**DIRECTOR GENERAL (GRADE-1)**  
**BANGLADESH RICE RESEARCH INSTITUTE**



- 1. Name** : **DR. MD. SHAHJAHAN KABIR**
- 2. Father's name** : Late Nabi Hossain
- 3. Date of birth** : March 30, 1966
- 4. Present address** : Director General  
Bangladesh Rice Research Institute  
Gazipur 1701, Bangladesh.  
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- 5. Permanent** : **Vill.- Digla, P.O.- K. Amtala, Upazila- Netrakona Sadar**  
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[dg@brri.gov.bd](mailto:dg@brri.gov.bd)
- 6. Date of joining at BRRI** : 21.11.1994
- 7. Date of joining at present position** : 31.08.2017
- 8. Nationality** : Bangladeshi (by birth)
- 9. Marital status** : Married
- 10. Qualifications** :
- a. University education**

Name of Exam	Year of Passing	Board/University	Group
S.S.C	1981	Dhaka	Science
H.S.C	1983	Dhaka	Science
B.Sc. (Hons.)	1987 (held in 1990)	Rajshahi University	Statistics
M.Sc	1988 (held in 1991)	Rajshahi University	Statistics
Ph. D	2011	Jahangirnagar University	Geo-Statistics

Ph.D Thesis Title: Geo-Statistical Modeling of Arsenic in Soil and Irrigation water in Bangladesh

**b. Research Experience (Indicate area of expertise with duration):**

(i)

- 20 years professional experience as a statistician at Bangladesh Rice Research Institute holding different positions. Major tasks include: (i) Administration, Planning, Programming, Implementing and executing of research programs, (ii) development of a no. of statistical procedures for rice experiments, (iii) monitoring and evaluation of research and other activities and preparation of reports, (iv) providing statistical counseling to other scientists of the institute on planning of experiment, data analysis and interpretation
- 15 years working experience with GIS
- SM-CRSP, Bangladesh (USAID funded) as PI of GIS part (1996-2001), Bangladesh Country Almanac (USAID funded) as PI, BRRRI part (2001-06) (ii) Impact of Arsenic Contamination on Agricultural Sustainability and Food Quality (USAID funded) as PI of GIS part (2000-05) (iii) Food for Progress (USAID funded) as PI of GIS part from December 2013 (iv) Jircus funded project “Impact Assessment of Climate Change of Production and Marketing of Agricultural Products” from April 2010 (v) Focal point of the project (GAIN).

**c) Advanced Training/Workshop**

**(i) Incountry/National**

- Completed a training on **Introduction to New Developments in Genotype by Environment (GxE) Analysis and Interpretation of Results** jointly collaboration with IRRI in 1996 at Bangladesh Rice Research Institute (BRRRI), Bangladesh from August 17-29, 1996.
- Completed one month **Rice Production Training Course** at BRRRI from 31st May, 1997 to 29th June, 1997.
- Completed a **Documentation and Data Management for Genetic Resources** training jointly collaboration with IRRI at Bangladesh Rice Research Institute (BRRRI), Bangladesh from 21st November 1997 to 3rd December 1997.
- Completed a training on **Experimental Design and Statistics** jointly conducted by the Institute of Forestry and Environmental Sciences, University of Chittagong, Bangladesh and The Department of Zoology, University of Bergen, Bergen, Norway under the auspices of Norwegian Universities Committee for Development, Research and Education (NUFU) from 6th December, 1997 to 14th December, 1997.
- Completed a **Statistical Methods for Agricultural Research** training jointly conducted by Agricultural Economics department and Graduate Training Institute (GTI), Mymensingh from 20<sup>th</sup> April 1998 to 04<sup>th</sup> May 1998.
- Completed **Foundation Training Course for NARS Scientists** organised by Bangladesh Academy for Rural Development (BARD), Comilla from 28<sup>th</sup> June to 10 October, 1999.
- Completed a training on **Application of AEZ/GIS for Agricultural Planning** organised by Bangladesh Agricultural Research Council (BARC) from 02 May to 30 June 2000.

- Completed a training course on **Arc View Spatial Analyst** organised by EGIS, Dhaka from 24 May to 07 June, 2001.
- Completed a training course on **Presentation Skill Development** organised by Institution of Engineers, Bangladesh (IEB) from 13-15 September, 2001.
- Completed a training course on **Computer Networking: Installation, Configuration, Administration and Maintenance** organised by Department of Computer Science and Information Technology, Islamic University of Technology (IUT), Bangladesh from 06 – 10 October, 2002.
- Attained a national workshop on **Rice Research and Extension – 2002 of “ Feeding the extra millions by 2025- Challenges for rice research and extension in Bangladesh”** organized by BRRI and DAE from 29-31 January 2002.
- Attained a **GIS Country Almanac workshop** organized by BARC in collaboration with CIMMYT Bangladesh from 28-29 August 2002.
- Completed a training course on **Overview of E-Governance and E-Commerce** organised by Academy for Planning and Development, Ministry of Planning, Nilkhet, Dhaka from 20 August to 04 September, 2006.

**(ii) Abroad/International**

- Completed a **International Training Course on Farming Systems Research and Development** organised by Farming Systems and Soil Resources Institute, U. P. Los Banos, College, Laguna, Philippines from 24 January to 17 March, 2001.
- Participated an International Training Workshop on **Stakeholders Assessment of GIS Tools and Datasets for RWC Activities** organised by Department of Civil Engineering, IIT, Delhi in collaboration with Rice-Wheat Consortium for the Indo-Gangetic Plains under the aegis of Foundation for Innovation and Technology Transfer from 22 to 25 January, 2002.
- Participated a GIS workshop on **Application of GIS Tools in Rice-Wheat Research and Development** organized by BRRI collaboration with Cornell University, USA from 2-3 February 2002.
- Participated an International workshop on **Behavior of Arsenic in Aquifers, Soils and Plants: Implications for Management** jointly organized by CIMMYT, Cornell University, Texas A & M University, United States Geological Survey and Geological Survey of Bangladesh from 16-18 January 2005.
- Participated **8th International Conference on the Biogeochemistry of Trace Elements (ICOBTE)** at Adelaide, Australia organized by

International Society of Trace Element Biogeochemistry (ISTOB) from 3-7 April 2005.

- Participated International Symposium on **Climate Change and Food Security in South Asia** at Dhaka, Bangladesh jointly organized by Ohio State University, USA and Dhaka University, Bangladesh from 25-30 August 2008.
- Participated International MARCO Symposium 2009 on **Challenges for Agro-Environmental Research in Monsoon Asia** at Tsukuba International Congress Center, Epochal Tsukuba, Japan from 5-7 October 2009.
- Participated Annual Review and Planning Meeting of CSISA Research Platform at NASC Complex, New Delhi, India on 5 December 2011.
- Participated JIRCAS International Symposium 2012 on **Resilient Food Production Systems: The Role of Agricultural Technology Development in Developing Regions** at Tsukuba International Congress Center, Epochal Tsukuba, Japan from 28-29 November 2012.
- Participated in the Consultative Meeting on **Rice Strategy for Asia and the Pacific** on 28 January 2014 at Bangkok, Thailand.
- Participated in the Study Tour Program on **Agricultural Project Planning and Management** on 1-6 August 2014 at Kualalampur, Malaysia.
- Participated in the Dissemination and Advocacy meeting on **Trade and Knowledge Sharing in HYV Rice Seeds** on 30 April 2015 at New Delhi, India.
- Participated in the Golden Rice Project workshop on Risk Communication on 9-11 June 2015 at IRRI, Philippines.
- Participated in the Golden Rice Project workshop on Risk Communication on 9-11 June 2015 at IRRI Philippines.
- Participated in the discussion meeting regarding cold tolerant rice germplasm on 12-15 July 2017 at Nepal & 16-19 July 2017 at Bhutan.
- Participated in the study tour program along with honorable Agricultural minister at IRRI, on 27-29 November 2017 in Philippines.
- Participated in the 5<sup>th</sup> International Rice Congress (IRC) 2018 in Singapore on 15-17 October 2018.
- Participated in the study tour program on 10-18 November 2018 at Seattle, USA.
- Participated in the Study tour program on 7-16 March 2019 in Germany, France & Netherlands.

- Participated in the meeting on the Global Institute for Food Security on 2-10 October 2019 at University of Saskatchewan, Ottawa, Canada.
- Participated in the meeting of the SAARC Research Advisory Committee on 16-17 October 2019 in India.
- Participated in **South-South High-Level Meeting** on September 1-2, 2022, in New Delhi, India organized by Borlaug Institute for South Asia (BISA).
- Participated in **World Food Forum and World Investment Forum Meeting** in Rome, Italy from the 16<sup>th</sup> of October 2022 to the 21 October 2022.

**11. Positions held:** **Director General (Grade-1)**, Bangladesh Rice Research Institute, Joydebpur, Gazipur from 3<sup>rd</sup> January, 2023 to till date.

**12. Job description:**

(i) **Administration**, Planning, Programming, Implementing and executing of research programs, (ii) Development of statistical procedures for rice experiments, (iii) Monitoring and evaluation of research and other activities and preparation of reports, (iv) Providing statistical counseling to scientists of the institute and other Institute/Organizations on planning of experiment, data analysis and interpretation.

**13. Service Information:**

Name of position	Scale (2015)	Service	
		Starting date	Ending date
Scientific Officer	22000-53060	21/11/1994	27/02/2000
Senior Scientific Officer	35500-67010	28/02/2000	17/12/2007
Principal Scientific Officer	50000-71200	18/12/2007	13/02/2010
Chief Scientific Officer	56500-74400	14/02/2010	11/11/2013
Director (Admin. & CS)	66000-76490	12/11/2013	30/08/2017
Director General (Current Charge)	-	31/08/2017	02/01/2023
Director General (Grade-1)	78000	03/01/2023	20/08/2024

## Publications of M S Kabir

<b>(i) Scientific journals</b>	Publications: National	=	60
	International	=	46
	<b>Total</b>	=	<b>106</b>

### **(a) Paper published in the Reputed International Journal: (33)**

#### **Principal author: 04**

**Kabir M. S.,** M. A. Salam, D. N. R. Paul, M. I. Hossain, N. M. F. Rahman, and M. A. Latif 2016. Geo-statistical models for determining spatial variation and spatial dependency of arsenic in Bangladesh. Journal of the national science foundation of Srilanka (JNSF), Script No. 37:2015, ED/JNSF-MSP/D/FT/ACC/37:2015.

**Kabir M. S.,** M. A. Salam, D. N. R. Paul, M. I. Hossain, N. M. F. Rahman, Abdullah Aziz, and M. A. Latif 2016. Spatial Variation of Arsenic in Soil, Irrigation Water, and Plant Parts: A Microlevel Study. The Scientific World Journal Volume 2016, Article ID 2186069, 14 pages (<http://dx.doi.org/10.1155/2016/2186069>).

**Kabir M.S.,** D.N.R. Paul, Z.U. Ahmed, M.A. Mazid Miah, C.A. Meisner and J.M. Duxbury 2007. A GIS-based analysis for increasing productivity of rice- wheat systems in Bangladesh- A case study in Biral upazila, Dianjpur, Bangladesh. International Journal of Bio Research; Vol. 3, No. 2, pp:35-42.

**Kabir M.S.,** M.Maniruzzaman, M.A. Saleque, J.C. Biswas and M.A. Sattar 2007. Soil fertility mapping at micro level: A case of Jotgobardhan village in Kurigram district. International Journal of Bio Research; Vol. 3, No. 1, pp:22-29.

#### **Co-author: (29)**

Rahman, N.M.F., Malik, W.A., Kabir, M.S., Baten, M.A., Hossain, M.I., Paul, D.N.R., Ahmed, R., Biswas, P.S., Rahman, M.C., Rahman, M.S. and Iftekharuddaula, K.M., 2023. 50 years of rice breeding in Bangladesh: genetic yield trends. Theoretical and Applied Genetics, 136(1), pp.1-13.

Hasan MJ, Kulsum MU, Sarker U, Matin MQI, Shahin NH, Ercisli S, Marc RA and Kabir MS. Assessment of GGE, AMMI, Regression and its Deviation model to identify stable rice Hybrid in Bangladesh-|| Plants 2022, 11, 2336. 07 September 2022. <https://doi.org/10.3390/plants11182336>

Debsharma, S. K., Rahman, M. A., Quddus, M. R., Khatun, H., Disha, R. F., Roy, P. R., ... & Kabir, M. S. (2022). SNP Based Trait Characterization Detects Genetically Important and Stable Multiple Stress Tolerance Rice Genotypes in Salt-Stress Environments. Plants, 11(9), 1150.

MA Aziz, HUS Shohan, NMF Rahman, MC Rahman, SAI Nihad, SMQ Hassan, **MS Kabir**, MI Hossain, R Ahmed, MA Qayum, MAA Mamun, F Rahman, Z Rukshanara and MS Kabir 2022. Projection of Future Precipitation in Bangladesh at Kharif-|| Season Using Geospatial Techniques. 09 June 2022. <https://doi.org/10.1007/s41748-022-00319-9>.

Md. AR Sarker, MC Rahman, MS Rahman, MR Sarker, MA Islam, J Balie and MS Kabir 2022. Adoption Determinants of Exotic Rice Cultivars in Bangladesh. Frontiers in Sustainable Food Systems. 21 February 2022. Vol: 06: Article: 813933.

- Naher, U.A., Biswas, J.C., Maniruzzaman, M., Khan, F.H., Sarkar, M.I.U., Jahan, A., Hera, M.H.R., Hossain, M.B., Islam, A., Islam, M.R. and Kabir, M.S., 2021. Bio-organic fertilizer: a green technology to reduce synthetic N and P fertilizer for rice production. *Frontiers in plant science*, 12, p.602052.
- Al Mamun, M.A., Nihad, S.A.I., Sarkar, M.A.R., Aziz, M.A., Qayum, M.A., Ahmed, R., Rahman, N.M.F., Hossain, M.I. and Kabir, M.S., 2021. Growth and trend analysis of area, production and yield of rice: A scenario of rice security in Bangladesh. *PloS one*, 16(12), p.e0261128. <https://doi.org/10.1371/journal.pone.0261128>
- Biswas, J.K., Salam, M.A., Kabir, M.S. (2020). Rice Research Revisited: BRRI and Its Achievements. In: Islam, M., Hossain, M. (eds) *Science and Technology Innovation for a Sustainable Economy*. Springer, Cham. [https://doi.org/10.1007/978-3-030-47166-8\\_5](https://doi.org/10.1007/978-3-030-47166-8_5)
- Moin U. Salam, Bidyuth K. Mahalder, Humnath Bhandari, Md. Shahjahan Kabir, M. Abdur Rouf Sarkar, Bodrun Nessa, M. Ansar Ali, Chapter 44 - Policy Directions Toward Increasing Rice Productivity—Lessons from Bangladesh, Editor(s): Mirza Hasanuzzaman, Masayuki Fujita, Kamrun Nahar, Jiban Krishna Biswas, *Advances in Rice Research for Abiotic Stress Tolerance*, Woodhead Publishing, 2019, Pages 895-913, ISBN 9780128143322, <https://doi.org/10.1016/B978-0-12-814332-2.00044-7>.
- Al-Mamun, A., Rahman, M.N.F., Aziz, M.A., Qayum, M.A., Hossain, M.I., Nihad, S.A.I. and **Kabir, S.**, 2018. Identification of meteorological drought prone area in Bangladesh using Standardized Precipitation Index. *J. Earth Sci. Clim. Chang*, 9, p.1000457.
- Kabir, M.J., Iftexharuddaula, K.M., Aditya, T.L. and **Kabir, M.S.**, 2018. Rice Technological Innovation and Value Chain Development in Bangladesh: Current Status and Future Directions. *Rice Technological Innovation and Value Chain Development in South Asia: Current Status and Future Directions: SAARC Agriculture Centre*, p.22.
- A Khatun, A.B.M Mostafizur, B.J. Shirazy, M. Nasim and **M.S. Kabir**. Nitrogen Management Option in Winter Rice under Boro- Fallow-T. Aman Cropping System. *Research on Crop Ecophysiology*. Vo. 11/2, Issue 2(2016) pp: 68-77
- Arif A., M. Kamruzzaman, B. A. A. Mustafi, M. **S. Kabir**, 2016. Export potentiality of horticultural crops in Bangladesh. *Nepalese Journal of Agricultural Sciences*, Vol. 14.
- Bodrun Nessa, Moin U. Salam, A.H.M. Mahfuzul Haque, Jiban K. Biswas, <sup>M.</sup> **S. Kabir**, William J. MacLeod, Mario D'Antuono, Hirendra N. Barman, M. Abdul Latif and Jean Galloway 2015. Spatial Pattern of Natural Spread of Rice False Smut (*Ustilaginoideavirens*) Disease in Fields: *American Journal of Agricultural and Biological Sciences*, Vol. 10, No. 2, pp: 63-73.
- Aziz M.A, M. A. K. Majumder, **M. S. Kabir**, M.I Hossain, N. M. F. Rahman, and S. Hosen 2015. Grounwater depletion with expansion of irrigation in Barind Tract: A case study of Rajshahi District of Bangladesh: *International journal of geology, agriculture and environmental sciences*, Vol. 3, pp. 32-38.
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- Hossain M. I., M. Shuaib, Kabita, M. Tareq, **M. S. Kabir** and M. A. Uddin 2008. Optimum sampling for measuring different plant characters of Teasle Gourd. *Eco-friendly Agril. J.*; Vol. 1, No. 3, pp: 172-175.
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- Siddique M. A. B., **M. S. Kabir**, M. S. Islam and F. Yeasmin 2008. Structure and performance of rice mills in some selected areas of Bangladesh. *International Journal of Bio Research*; Vol. 4, No. 4, pp:46 -51.
- Kabir H. M., A. Saha, I. U. Mollah, **M. S. Kabir** and F. Rahman 2008. Effect of crop establishment methods and weed management practices on the productivity of Boro rice in lowland ecosystem. *International Journal of Bio Research*; Vol. 4, No. 2, pp:42 -51.
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- Islam M.F., M.A.R. Sarkar, **M.S. Kabir**, S. Parveen and M.H.R. Mukul 2007. Effects of rate and time of herbicides application on weed control of Boro rice under direct wet-seeding condition by drum seeder. *International Journal of Bio Research*; Vol. 3, No. 1, pp:45-49.
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- Biswas J.K., M.S. Islam, R. Yasmeen, S. Parvin, **M.S. Kabir** and S. Alam 2002. Relative contribution of the coleoptile and the first leaf length to seeding establishment of rice (*Oryza sativa* L.) as affected by anaerobic seeding in two different soils, *Pakistan Journal of Biological Sciences* Vol. 5, No. 4, pp: 413-415.
- Zaman M.R., D. N. R. Paul, N. Akhter, M. H. Howlader and **M.S. Kabir** 2006. Chi-square Mixture of Chi-square distributions. *Journal of applied sciences*; Vol. 6, No. 2. pp:243-246.

**(b) National Journal: 48**

**Principal author: 04**

**M S Kabir**, D N R Paul, M I Hossain and N M F Rahman. Estimating Area and Production of Rice under Different Crop-cut Methods in Bangladesh. *Bangladesh Rice J.* 20 (1): 11-16, 2016.

**Kabir M. S.**, M U Salam, A Chowdhury, N. M. F. Rahman, K M Iftekharuddaula, M S Rahman, M H Rashid, S S Dipti, A Islam, M A Latif, A K M S Islam, M M Hossain, B Nessa, T H Ansari, M A Ali and J K Biswas. Rice Vision for Bangladesh: 2050 and Beyond. *Bangladesh Rice J.* 19 (2): 1-18, 2015.

**Kabir M. S.**, M Howlader, J K Biswas, M A A Mahbub and M Nur-E-Elahi. Probability of Low Temperature Stress at Different Growth Stages of Boro Rice. *Bangladesh Rice J.* 19 (2) : 19-27, 2015.

**Kabir M. S.**, D. N. R. Paul, M. I. U. Mollah and A. Khatun 2007. Extrapolation of Domain of a Proven Resource Conservation Technology: Crop Establishment by Chinese Hand Tractor Seeder in Rice-Wheat Systems, *Bangladesh Rice J.* Vol. 12, No. 1 & 2, p: 57-62.

**Co-author: 44**

Ali, M.P., Nessa, B., Khatun, M.T., Salam, M.U. and Kabir, M.S., 2021. A way forward to combat insect pest in rice. *Bangladesh Rice Journal*, 25(1), pp.1-22. <https://doi.org/10.3329/brj.v25i1.55176>

Khatun, M., Nessa, B., Salam, M., & Kabir, M. (2021). Strategy for Rice Disease Management in Bangladesh. *Bangladesh Rice Journal*, 25(1), 23–36. <https://doi.org/10.3329/brj.v25i1.55177>

Hossain, M., Maniruzzaman, M. ., Islam, A., Salam, M., & Kabir, M. (2021). Management and Utilization Strategy of Water Resources for Rice Production. *Bangladesh Rice Journal*, 25(1), 37–50. <https://doi.org/10.3329/brj.v25i1.55178>

Rahman, N.M.F., Rahman, M.C., Baten, M.A., Hossain, M.I., Hassan, S.M.Q., Ahmed, R., Hossain, M.M., Hossain, A.B.M.Z., Aziz, M.A., Haque, M.M. and Halder, T., 2021. Weather Forecast Based Rice Advisory Services in Bangladesh. *Bangladesh Rice Journal*, 25(1), pp.51-74. <https://doi.org/10.3329/brj.v25i1.55179>

Karmakar, B., Rahman, M.M., Sarkar, M.A.R., Mamun, M.A.A., Rahman, M.C., Nessa, B., Salam, M.U. and Kabir, M.S., 2021. Adoption Lag Minimization for Increasing Rice Yield. *Bangladesh Rice Journal*, 25(1), pp.75-88. <https://doi.org/10.3329/brj.v25i1.55180>

Nasim, M., Khatun, A., Kabir, M.J., Mostafizur, A.B.M., Mamun, M.A.A., Sarkar, M.A.R. and Kabir, M.S., 2021. Intensification of Cropping through Utilization of Fallow Period and Unutilized Land Resources in Bangladesh. *Bangladesh Rice Journal*, 25(1), pp.89-100. <https://doi.org/10.3329/brj.v25i1.55181>

Kabir, M.J., Sarkar, M.A.R., Rahman, M.C., Rahman, N.M.F., Mamun, M.A.A., Chowdhury,

- A., Salam, M.U. and Kabir, M.S., 2021. Risk of rice cultivation under current and future environment and market. *Bangladesh Rice Journal*, 25(1), pp.101-110. <https://doi.org/10.3329/brj.v25i1.55182>
- Hossain, M.S., Islam, A.K.M.S., Kabir, M.J., Sarkar, M.A.R., Mamun, M.A.A., Rahman, M.C., Salam, M.U. and Kabir, M.S., 2021. Role of Training in Transferring Rice Production Technologies to Farm Level. *Bangladesh Rice Journal*, 25(1), pp.111-120. <https://doi.org/10.3329/brj.v25i1.55183>
- Kabir, M.S., Salam, M.U., Islam, A.K.M.S., Sarkar, M.A.R., Mamun, M.A.A., Rahman, M.C., Nessa, B., Kabir, M.J., Shozib, H.B., Hossain, M.B. and Chowdhury, A., 2020. Doubling rice productivity in Bangladesh: A way to achieving SDG 2 and moving forward. *Bangladesh Rice Journal*, 24(2), pp.1-47. <https://doi.org/10.3329/brj.v24i2.53447>
- Rabbi, S.M.H.A., Biswas, P.L., Rashid, E.S.M.H., Iftekharuddaula, K.M., Rahman, N.M.F., Rahman, M.S., Sarkar, M.A.R., Mamun, M.A.A., Salam, M.U. and Kabir, M.S., 2020. Increasing rice yield through targeting genetic potentials by rice types. *Bangladesh Rice Journal*, 24(2), pp.67-82. <https://doi.org/10.3329/brj.v24i2.53449>
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- Haque, M.M., Islam, M.R., Rahman, M.S., Sarkar, M.A.R., Mamun, M.A.A., Salam, M.U. and Kabir, M.S., 2020. Soil health as influenced by fertilizer management in rice based cropping system. *Bangladesh Rice Journal*, 24(2), pp.119-131. <https://doi.org/10.3329/brj.v24i2.53452>
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