

## **CURRICULUM VITAE**

### **Personal Details**

**Name** Dr. Faruk Hossain khan  
**Father's Name** Halim Khan  
**Mother's Name** Sufia Khatun  
**Spouse's Name** Nargis Sultana  
**Date of Birth** 14-11-1984  
**Place of Birth** Rajbari, Bangladesh  
**Permanent Address** Vill: Baghutia; PO: Arkandi; PS: Baliakandi;  
Dist: Rajbari, Bangladesh.  
**Present Address (Home)** E-8; E Type Building  
Bangladesh Rice Research Institute (BRRI) R/S,  
Sonagazi, Feni, Bangladesh.

### **Official Details**

**Position & Address** **Senior Scientific Officer (SSO)**  
Soil Science Division  
Bangladesh Rice Research Institute (BRRI)  
Regional Station, Sonagazi, Feni  
**Mobile** 01720120350, 0814858566, 01913465607  
**Email** [faruk01354@gmail.com](mailto:faruk01354@gmail.com); [farukbrrisoil@gmail.com](mailto:farukbrrisoil@gmail.com)

### **Nationality Details**

**Nationality** Bangladeshi  
**National ID No.** 19842699040719846  
**Passport No.** E 00008740

**Field of Specialization** Soil Science Division

<b>Education</b>				
<b>Degree</b>	<b>Year</b>	<b>University/Board</b>	<b>Major Subject/Field</b>	<b>Class/Division</b>
Doctor of Philosophy	2025	Okayama University Japan	Bio-Signaling Chemistry	<b>Excellent</b>
Master of Science	2013	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	Agricultural Chemistry	<b>First Class</b>
Bachelor of Science in Agriculture (Hon's)	2009	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	Agriculture	<b>First Class</b>
Higher Secondary Certificate	2002	Dhaka, Bangladesh	Science	<b>First Division</b>
Secondary School Certificate	2000	Dhaka, Bangladesh	Science	<b>First Division</b>

<b>Major Research Interests</b>				
<ul style="list-style-type: none"> <li>• Rice system of the future</li> <li>• Soil with Crop modeling</li> <li>• Econometric Modeling</li> <li>• Remote Sensing and GIS</li> <li>• Stochastic Frontier, Data Envelopment Analysis and Meta Frontier Models.</li> </ul>				

<b>Employment Status</b>				
	<b>Designation</b>	<b>Institute/Organization</b>	<b>Duration</b>	<b>Responsibility</b>
01.	Scientific Officer	Bangladesh Rice Research Institute, RS, Cumilla	10/07/2013 to 30/06/2021	Research and Regional all activities
02.	Scientific Officer	Bangladesh Rice Research Institute, RS, Gopalgang	01/07/2021 to 29/09/2025	Research and Regional all activities
03.	Senior Scientific Officer	Bangladesh Rice Research Institute, RS, Sonagazi, Feni	30/09/2029 to till date	Research and Regional all activities

<b>Research Experiences</b>				
	<b>Designation</b>	<b>Funded by</b>	<b>Duration</b>	<b>Project Name</b>
01.	Research student	Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Dhaka	01/01/2009 to 30/06/2009	Assessment of Ionic Toxicity of Buriganga River water and it's suitability for Irrigation , Drinking, Livestock's and Industrial uses
02.	Research Associate	University Grants Commission, Bangladesh	01/07/2009 to 30/06/2010	Agriculture and Food Security in Bangladesh: Four Decades of Development

<b>Project Research Experiences in BIRRI</b>				
SL	<b>Designation</b>	<b>Funded by</b>	<b>Duration</b>	<b>Project Name</b>
01.	Principal Investigator	GOB, BIRRI	10/07/2013 to continue	Study on the consequences of continuous wetland intensive rice cropping
02.	Co-Investigator	GOB, BIRRI	10/07/2013 to continue	Study on the consequences of continuous wetland intensive rice cropping
03.	Co-Investigator	GOB, BIRRI	10/07/2013 to continue	Nutrient management for growing four crops in a land per year
04.	Co-Investigator	GOB, BIRRI	17/11/2014 to continue	Updating fertilizer doses through Site Specific Nutrient Management(SSNM) experiment
05.	Co-Investigator	GOB, BIRRI	17/11/2014 to continue	Soil Profile Study under long term experimentation

06.	Co-Investigator	GOB, BRRI	17/11/2014 to continue	Soil salinity mitigation's net house experiment
07.	Co-Investigator	GOB, BRRI	17/11/2014 to continue	Kitchen waste management experiment
08.	Co-Investigator	GOB, BRRI	17/08/2015 to continue	Alert material's for short duration & micronutrient management experiment
09	Principal Investigator	GOB, BRRI	17/07/2016 to continue	Study on the consequences of continuous wetland intensive rice cropping
10	Principal Investigator	GOB, BRRI	17/07/2016 to 17/07/2017	To investigate the effect of foliar application of different concentrations of silicon on medium fine rice under the agro climatic conditions of Bangladesh
11	Principal Investigator	GOB, BRRI	17/07/2017 to continue	Nutrient management for growing four crops in a land per year
12	Principal Investigator	GOB, BRRI	17/07/2017 to continue	Effectiveness of combining agronomic and genetic bio-fortification of rice with zinc in Bangladesh
13	Principal Investigator	GOB, BRRI	10/07/2017 to continue	Missing Element Experiments Side specific Nutrient Management(SSNM)
14	Principal Investigator	GOB, BRRI	10/07/2017  to continue	N uptake trail for BRRI newly released /Promising lines
15	Principal Investigator	GOB, BRRI	01/01/2018 to continue	Effects of Bioorganic Fertilizer Soil Plant System in Bangladesh
16	Principal Investigator	GOB, BRRI	10/07/2018 to continue	Missing Element Experiments Side specific Nutrient Management(SSNM)
17	Principal Investigator	GOB, BRRI	10/07/2018  to continue	N uptake trail for BRRI newly released /Promising lines
18	Principal Investigator	GOB, BRRI	01/01/2019 to continue	Effects of Bioorganic Fertilizer Soil Plant (BRRI dhan58, BRRI dhan75, BRRI dhan89) System in Bangladesh
19	Principal Investigator	GOB, BRRI	10/01/2019 to continue	Missing Element Experiments Side specific Nutrient Management(SSNM)
20	Principal Investigator	GOB, BRRI	10/01/2019 to continue	N uptake trail for BRRI dhan87 and BRRI dhan89
21	Principal Investigator	GOB, BRRI	01/01/2019 to continue	Effects of Bioorganic Fertilizer Soil Plant (BRRI dhan84, BRRI dhan86, BRRI dhan88) System in Bangladesh
22	Principal Investigator	GOB, BRRI	01/01/2019 to	Efficiency of DAP fertilizer for the supplementation of nitrogen

			continue	
23	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Effect of time of planting on growth and yield of BIRRI developed newly T. Aman varieties BIRRI dhan93, BIRRI dhan94 and BIRRI dhan95
24	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Effect of time of planting on growth and yield of newly BIRRI released Boro variety BIRRI dhan96
25	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Performance of BIRRI dhan76 and BIRRI dhan77 rice varieties under stagnant condition
26	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Effect of polythene cover in seed bed during Boro season
27	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Survey and yield loss assessment of rice blast disease in Cumilla district
28	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Validation of rice neck blast disease management technology under farmer's field condition
29	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Varietal reaction and recovering ability of BIRRI released rice varieties
30	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Factors affecting rice tungro disease and its management in Cumilla region
31	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Tracking the infection source(s) of rice false smut disease
32	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	ALART for Bacterial Blight disease of rice
33	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Screening of Blast, BB and Tungro resistant monogenic lines in disease hot spot of Bangladesh
34	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Evaluation of new chemicals against Blast, Sheath blight diseases of rice
35	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Advisory services to the farmers
36	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Stability analysis of BIRRI released rice varieties
37	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Multiplications trial of different BIRRI varieties in major cropping patterns
38	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Farmer's training on modern rice cultivation
39	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Influence of nitrogen and potassium rates on performance of modern rice
40	Principal Investigator	GOB, BIRRI	01/01/2019 to continue	Effects of N,P and K rates on the yield of BIRRI released news varieties/ advanced lines in BIRRI Farm Cumilla

**List of Publications: International: 06; National: 16; Total: 22**

1. **Faruk Hossain Khan**, Yoshitaka Nakashima, Toshiyuki Nakamura, Yoshimasa Nakamura, Yoshihiko Hirai, Md Anamul Hoque, Mohammad Saidur Rhaman, Shintaro Munemasa, Jun'ichi Mano, Yoshiyuki Murata, Involvement of reactive carbonyl species in inhibition of germination and seedling growth by salt stress in rice, *Bioscience, Biotechnology, and Biochemistry*, Volume 89, Issue 8, August 2025, Pages 1106–1113, <https://doi.org/10.1093/bbb/zbaf062>
2. Aminul Islam, Rakiba Sultana, AKM Salauddin, Tasnia Ferdous, Bijoya Shaha & **Faruk Hossain Khan**. Modern Rice varieties Suitable for Cumilla Region. *Bard.gov.bd*, page no 1-27, May 2022.
3. Naher, U. A., Haque, M. M., **Khan, F. H.**, Sarkar, M. I. U., Ansari, T. H., Hossain, M. B., & Biswas, J. C. Effect of long-term nutrient management practices on soil health and paddy yield of rice-rice-fallow cropping system in tropic humid climate. *European Journal of Soil Biology*, 107, 103362, 2021.
4. Naher, U. A., Biswas, J. C., Maniruzzaman, M., **Khan, F. H.**, Sarkar, M. I. U., Jahan, A., ... & Kabir, M. S. Bio-organic fertilizer: A green technology to reduce synthetic N and P fertilizer for rice production. *Frontiers in Plant Science*, 12, 602052, 2021.
5. Biswas, J. C., Haque, M. M., **Khan, F. H.**, Islam, M. R., Dipti, S. S., Akter, M., & Ahmed, H. U. Zinc fortification: Effect of polishing on parboiled and unparboiled rice. *Current Plant Biology*, 16, 22-26, 2018.
6. Biswas, J. C., Haque, M. M., Akter, M., Hossain, A. S., **Khan, F. H.**, Baki, M. Z. I., ... & Islam, M. R. Element composition of the atmospheric depositions in Bangladesh. *Journal of Environmental Protection*, 9(9), 948-956, 2018.
7. Kabir, M., Naher, U., Panhwar, Q., Shamshuddin, J., & **Khan, F.H.** Effect of transplanting dates on growth and yield of inbred and hybrid rice varieties grown during rainfed season in Bangladesh. *Philipp Agric Sci*, 97(4), 347-354, 2014.

8. **FH Khan**, Jatish C Biswas, MR Islam, SS Dipti, MM Haque, M Iqbal, M Akhter and HU Ahmed. "EFFICIENCY OF JOINING AGRONOMIC AND HEREDITARY BIO-FORTIFICATION OF RICE WITH ZINC IN BANGLADESH" *Eco-friendly Agril.J.* 11 (08): 84-87, 2018 (August).
9. **FH Khan**, M Adil, S Jahan, MM Haque, M Iqbal, A Sultana, MR Islam, MM Mian and HU Ahmed. "CONSEQUENCE OF FOLIAR APPLICATION OF SILICON ON YIELD AND QUALITY OF RICE IN T. AMAN SEASON OF BANGLADESH" *Eco-friendly Agril.J.* 11 (09): 88-92, 2018 (September).
10. **FH Khan**, M Adil, MM Mozumder, A Sultana, M Iqbal, MM Haque, MR Islam, MM Mian and JC Biswas. "UPDATING FERTILIZER DOSES THROUGH SITE SPECIFIC NUTRIENT MANAGEMENT FOR BIRRI RELEASED RICE VARIETIES" *Eco-friendly Agril.J.* 11 (09): 93-95, 2018 (September).
11. **FH Khan**, M Iqbal, MM Mozumder, A Sultana, MM Haque, MR Islam, PK Shaha and JC Biswas. "ASSESSMENT OF NP COMPOSITE (NPC) FERTILIZER ON BORO RICE" *Eco-friendly Agril.J.* 11 (11): 135-142, 2018 (November).
12. **FH Khan**, MM Mozumder, SMT Islam, MA Iqbal, A Sultana and M Adil. "VALIDATION OF BIRRI DEVELOPMENT FERTILIZER MANAGEMENT TECHNOLOGY AT FARMERS FIELD" *Eco-friendly Agril.J.* 11 (12): 143-147, 2018 (December).
13. **FH Khan**, SMT Islam, nm Sutradhar, MA Iqbal, A Sultana and M Adil. "PERFORMANCE OF VERMICOMPOST AND POULTRY MANURE ON RICE YIELD AND SOIL HEALTH" *Eco-friendly Agril.J.* 11 (12): 148-151, 2018 (December).
14. **Faruk Hossain Khan**, January-March 2015, Economical Prospects of High Yielding Variety (HYV) of Rice in Bangladesh. *Adhunik Krishi Khamar, Bangladesh.* Voil-6, No-01, pp9-11..
15. **Faruk Hossain Khan**, Sep 2014( 1st edition), *Krishibid Recruitment Guide, Bangladesh.* Voil-1, No-01, pp1-356.
16. **Faruk Hossain Khan**, Oct-2014 (2nd edition), *Krishibid Recruitment Guide, Bangladesh.* Voil-2, No-02, pp1-440.
17. **Faruk Hossain Khan**, April 2015 (3rd edition), *Krishibid Recruitment Guide, Bangladesh.* Voil-3, No-03, pp1-447.
18. **Faruk Hossain Khan**, August 2017 (4th edition), *Krishibid Recruitment Guide,*

Bangladesh.Voil-4, No-04, pp1-304

19. **Faruk Hossain Khan**, Scientific Report, Abstract and Articles (2014 to 2017)
20. Rashid MM, **Khan FH**, Nandi P, Sultana A, Hossain M, Mian S, Khan MAI, Latif MA. 2019. Management of blast disease in Cumilla region in field condition during Boro season(**Leaflet**)
21. Rashid MM, **Khan FH**, Nandi P, Sultana A, Hossain M, Mian S, Khan MAI, Latif MA. 2019. Management of blast disease of Aomatic rice in Cumilla region in field condition during Boro season(**Leaflet**)
22. Rashid MM, Mian S, **Khan FH**, Hossain M, Nihad SAI , Khan MAI, Ansari TH, Latif MA. 2020. Management technology of rice tunro disease in Cumilla region in field condition during Boro season(**Leaflet**).**Published by Bangladesh Rice Research Institute.Publication No. 306**

#### **Submitted Articles for Publication**

1. Mohammad Saidur Rhaman; **Faruk Hossain Khan**; Md. Asadulla Al Galib; Bir Jahangir Shirazy; Md. Anamul Hoque; Hamideh Ghaffari; Sajad Hussain; Marian Brestic; Yoshiyuki Murata. **"From Stress to Resilience: Glutathione-Salicylic Acid Co-Application Transforms Salt-Damaged Rice Through Stomatal, Oxidative, and Carbonyl Regulation"**. ACPP-D-25-00814 - Submission Notification to co-author - [EMID:ae5d95147b993ab8]

#### **Computer Proficiency**

- MS Office (MS Word, MS Excel and MS Power Point)
- Statistical Packages: SAS, STATA, R and SPSS
- Crop Stat7.2, Statistix10; STAR; PB Tools

#### **Proficiency in Languages**

Bengali	Read, Spoken and Written
English	Read, Spoken and Written

<b>Stipend</b>			
<b>SN</b>	<b>Institute/Organization</b>	<b>Year</b>	<b>Award/Scholarship Name</b>
01.	Rajbari District	1995-2000	District Stipend
02.	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	2005-2009	University scholarship at B.Sc. level
03.	Sher-e-Bangla Agricultural University, Dhaka, Bangladesh	2009-2013	University scholarship at M.S. level

**Thesis Title:** Assessment of Ionic Toxicity of Buriganga River water and its suitability for Drinking water, Livestock's, Irrigation and Industrial uses

**Supervisor:** Professor Dr. Md. Azizur Rahman Mozumdar, Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Sher-e-Bangla, Agargaon, Dhaka-1207.

**Co-Supervisor:** Professor Dr. Md. Abdur Razzaque, Department of Agricultural Chemistry, Sher-e-Bangla Agricultural University, Sher-e-Bangla, Agargaon, Dhaka-1207

<b>Professional Memberships</b>	
<b>a. Life Member</b>	<ul style="list-style-type: none"> <li>• Krishibid Institution of Bangladesh</li> </ul>
<b>b. Ordinary Member</b>	<ul style="list-style-type: none"> <li>• Bangladesh Rice Research Institute Scientist Association (BRRISA)</li> </ul>
<b>c. Life Member</b>	<ul style="list-style-type: none"> <li>• Soil Science Society of Bangladesh</li> </ul>
<b>d. Life Member</b>	<ul style="list-style-type: none"> <li>• Japanese Universities Alumni Association in Bangladesh (JUAAB)</li> </ul>
<b>Referees</b>	
<p><b>Dr. Mohammad Issak</b> Professor Sher-e- Bangla Agricultural University (SAU) Department of Soil Science <b>Email:</b> mdissaksau07@yahoo.com Mobile: +8801716238645</p>	<p><b>Dr.Md. Khalequzzaman</b> Director General Bangladesh Rice Research Institute (BRRI) Gazipur-1701, Bangladesh <b>Email:</b> dg@brri.gov.bd Mobile: +8801715752595</p>

**Authentication:**

I do here by declaring that the information provided in this form is true and correct. I accept the respective authority to verify information provided in this resume.

Yours truly,



30/09/2025

Dr. Faruk Hossain Khan  
Senior Scientific Officer  
Soil Science Division  
Bangladesh Rice Research Institute (BRRI)  
Resional Station, Sonagazi, Feni, Bangladesh.