

Resume of

Jiban Krishna Biswas *Ph D*
Director General
(Post Retirement Leave)
Bangladesh Rice Research Institute,
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Motivation letter

I am an Agricultural Graduate, Ph D in Crop Science from CLSU, Philippines. As an IRRI-USAID scholar, I accomplished my thesis work on Plant Physiology at IRRI (#11). I was also a JSPS post doctoral fellow in Japan (#12).

I am well trained in different research methodologies (#13a, 13b) and quite familiar with the IRRI's R & D strategy and nature of work. My involvement with BRRI as a Plant Physiologist, administrator and research manager for 33 years is quite significant (#15) in developing a good number of rice varieties and technologies through Plant Physiological inputs for favourable and unfavourable ecosystems (#16a, 16b, 16c, 16d, 16e, 17, 18, 19, 20a, 20b, 20b).

Rice Vision 2050 and Beyond has been developed under my guidance <http://www.banglajol.info/index.php/BRJ/article/view/28160>. I supervised different national and international projects and programs (#17, #20c). Lately, Transforming Rice Breeding, an ambitious project funded by the **Bill and Melinda Gates Foundation** has been initiated under my leadership.

Maintaining professional relationship with different Universities was my passion (#21, 22a, 22b). More so, I fostered a close liaison with media personnels (#30a), policy makers, minister and ministry officials, PPP organizations like PKSF, BRAC, GAIN, Renata, Syngenta, ACI, CCDB, and Village Agri-Clubs etc (#23).

I am credited with 57 scientific publications in national and international journals (#26 a, 27a, 27b). Translating rice science to the stake holders is my hobby.

Accordingly I have a huge number of popular articles (mostly on rice) in the leading Dailies of Bangladesh (#26 b, 28). I have published several books, also on rice (#29 a, 29b, 29c). I used to take part in TV talks and Interviews on Rice and climate change (#30b). I was also the Chief Editor of Bangladesh Rice Journal (ISSN 1025-7330), a regular publication from BRRI (#31).

During my tenure, BRRI was awarded by MCCI, KIB as the best institute of the country. The Government of People's Republic of Bangladesh have also adorned my institute with the highest honour in agriculture---the **Bangabandhu Gold Medal**, (#32a).

I myself have been awarded with the **Bangladesh Academy of Agriculture Gold Medal** for the outstanding leadership in rice research and development (#32b).

Resume

1. Name: JIBAN KRISHNA BISWAS
2. Fathers name: Mr. Jitendra Nath Biswas
3. Mother's Name: Mrs. Nanibala Biswas
4. Present address (Postal address): Bangladesh Rice Research Institute, Gazipur1701, Bangladesh
5. Permanent address: Vill: Andharkota, P.O. Jona, UZ: Kalukhali, Rajbari: 7720. Bangladesh
6. Date of birth: 01 July 1957
7. Marital status: Married
8. Name of the spouse: Mrs Sandhaya Rani Saha
9. Children: Daughter-1, Son-2
10. Nationality: Bangladeshi

11. Educational qualification

Graduation	Institution	Subject	Sponsor	Country	Performance	Year
Post Doc research fellow	Yamagata Univ	Rice Physiology	JSPS	Japan	Successsfully completed	2001
Ph. D.	CLSU-IRRI	Crop Science	IRRI-USAID	Philippines	Excellent	1994
M.Sc. Ag.	BAU	Crop Botany	IRRI	Bangladesh	First Class	1983
B.Sc.Ag	BAU	Agriculture	-	Bangladesh	2nd Class	1981
HSC	Dhaka Board	Science	-	Bangladesh	2nd Division	1975
SSC	Dhaka Board	Science	-	Bangladesh	1st Division	1973

12. Scholership and Fellowship

Sl no	Degree/Non Degree	Scholarship/Fellowship	Country
1	Post-Ph D	JSPS-two year Post Doctoral fellowship (non-degree)	Yamagata Univ. Japan
2	Research fellow	SEARCA (Southeast Asian Regional Center for Graduate Study and Research in Agriculture (Research programme)	SEARCA, Philippines
3	Ph D	IRRI-USAID Scholarship	CLSU-IRRI, Philippines
4	MSc Ag	IRRI-USAID (In country) Scholarship	BAU, Bangladesh
5	Bsc Ag Hons	-	BAU, Bangladesh

13. Training received:**a) International:**

Training	Institute	Country	Duration (days)	Year	Certificate
Simulation and system analysis in rice production	IRRI	Philippines	56	1988	Satisfactory
Experimental Design and Data Analysis	IRRI & BRRI	Bangladesh	10	1994	Satisfactory
Introduction to New Developments in G x E analysis and Interpretation of results	IRRI & BRRI	Bangladesh	12	1996	Satisfactory

b) National (training)

Training	Institute	Duration (days)	Year	Comment
Special Training in the Theory and Practices of Rice Production and Research Management	BRRI	120	1983	Administration and Financial management included in the training course
Biological Nitrogen Fixation	BARC	7	1986	
Research Planning and Evaluation	BARC/BRRI	15	1990	
English Language Course	USAID/British Council	40	1989	Passed ALIGU Test
Government Financial Management	Ministry of Agriculture	7	2002	
Financial Management	BARC	3	2009	
Technical Report Writing and Editing	AIS/ARC	4	2009	

14. Computer Skillness: Excellent application knowledge on computer software like MS Office (MS word, Excel, Power point) and in typing both English and Bangla

15. Service experience: 33 years 24 days

(5 years in different regional stations of BRRI, 5 years in abroad for higher study and research (3 years in Philippines and 2 years in Japan)

Post	Division	From	Upto
Scientific Officer (SO)	Plant Physiology	6 June 1983	3 Nov 1992
Senior Scientific Officer(SSO)	Plant Physiology	4 Nov 1992	10 Dec 2001
Principal Scientific Officer (PSO)	Plant Physiology	11 Dec 2001	24 November 2009
PSO and Head	Plant Physiology	18 May 2009	
Chief Scientific Officer and Head (CSO)	Plant Physiology	25 November 2009	7 February 2012
Director (Administration and common services)	-	7 February 2012	11 November 2013
Director (Research)		12 November, 2013	01 October 2014
Director General	-	29 December, 2013	30 June 2016 (till Post Retirement Leave:PRL)

16. Significant activities and achievements as a researcher**a. Screening for drought, submergence, and extreme temperature tolerance at seedling and reproductive stage**

Direct involvement		
Stress environment	Genotype/Variety	Remarks
Cold	IR54791-19-2-3 (screening)	BRRI dhan36 (medium tolerant to cold tolerant both at the seedling and reproductive stage.
	IR77496-31-2-1-3-1(screening) IR62266-42-6-2(screening)	Tolerant against cold at the reproductive and seedling stage
Drought	BR5226-5-4(screening)	Tolerant to drought
	BR6058-6-3-3(screening) BR5543-5-1-2-4(screening)	Released as Upland Aus
Anaerobic environment	IR41996-50-2-1-3, Haenuki, Arroz da terra, Aswina, Banshful and many others.	Anaerobic seedling establishment
High temperature	Selected lines are in use of developing news lines through MAS	Interogression of N22 (high temperature tolerant) in Bangladeshi popular varieties.
Submergence	Screening from land race genotypes	Acc. no. 1838 (Pathor nuti), Acc. no. 4096 (Sada Dangor Boro) with modern plant type ready in the variety development program.

b. Act as guide/Chief Plant Physiologist/ Head/supervisor of MS and PhD student/ Director (Administration and Research) associated with the selection of lines released as varieties.		
Stress environment	Breeding lines	Comment
Salt	BR5778-156-1-3-HR14	Released as BRR I dhan53
	BR5999-82-3-2-HR1	Released as BRR I dhan54
	IR73678-6-9-B	Released as BRR I dhan55
Drought	IR74371-70-1-1-B	Released as BRR I dhan56
	IR7873-5-51-HR6	Released as BRR I dhan57
Submergence	IR81213-246-237	Released as BRR I dhan51
	IR85260-66-654-Gaz2	Released BRR I dhan52
Elongated type	BR6902-16-5-1-1	Released as BRR I dha63
Zink enriched	BR7517-2R-27-3	Released as BRR I dhan62
	BR7840-54-1-2-5	Released as BRR I dhan64

c. Agronomic and Physiological research

Subject	Published source	Agronomic utility
Charaterization of some BRR I developed modern rice varieties	Biswas et al., 1989	Relevant to develop agronomic management and varietal development for the Bangladeshi environment.
Mechanism of seedling establishment under lowland conditions	Biswas and Yamauchi, 1996; Yamauchi and Biswas, 1997.	In the process of development of Wet seeding/Anaerobic seeding technology
Excess oxygen damage seedling during calper coating	Biswas, et al., 2001; Biswas et ai., 2001	Calper coating used in Japan for seedling establishment under lowland conditions is not good for all situation.
Seedling establishment may vary with soil and agronomic management under lowland conditions	Biswas et al., 2002, Yamauchi and Biswas, 2002	Good for soil management under wet seeded conditions.
Late seeded Transplanted Aman	Biswas et al., 1991 Annual Report, BRR I	Increase cropping intensity
Nature of seed dormancy	Biswas et al., 1991 Haque al., 1993	Generate information regarding sprouting seeds during rain and humid condition.
Growth duration: as affected by seedling age and seeding time	Biswas et al., 2008	Save harvest from late April flash flood in depressed area during Boro season in Bangladesh
Relationship of El Nino and La Nina with Rice Production	Biswas et al., 2011	Might help in Policy decision

Adverse environment and Rice based agriculture	Biswas et al., 2011	Causes of sterility, estimation of critical temperature for sterility, and the guidance for adaptation strategy for rice
Climate change from 1975 to 2075	Basak et al., 2012: I was one of the advisor of my student Mr. Basak.	Guidance for Global warming threat and to determinate the future strategy regarding rice production technology.
Rice based farming system for unfavorable ecosystem and livelihood adaption	Ali et el; Biswas et al., etc.	On -arm research for the upliftment of marginal poor farmers in unfavorable area.
New technique to protect seedling from severe cold by polythylene covering	Mahbub etal., 2008	Money saving technology
Impact of Calcium and Potash on the growth of Rice under salt stress condition.	Yasmeen et el., 2009	Useful information to develop soil management under saline belt in the coastal zone.
Simple GXE enteraction of some Deep Water Rice (DWR)	Hossain et al., 2005	Useful information for the development of DWR
Probability of low temperature	Kabir et al (un published) Presented at the Asiatic society of Bangladesh)	Probablity might help in the management of crop and crop production technologies.

d. Research work in progress

Subject	Source	Utility
Estimate genetic coefficient of BRRI developed varieties to be used for crop model like DSSAT	On-going program since 2007	Develop Rice production technology under Global warming threat.
Guiding four Ph D students: working on drought and submergence tolerance of rice	SAU	Develop Cultural practice to cope with the adverse environment.
Modelling approach to understand false smut disease of rice (Ph D student)	Sylhet Agriculture University	Control and forecasting of False smut disese of rice
Screening of High temperature tolerant rice breeding lines	Since 2007	Development of modern Aus rice
Study the apical dominance behavior in land race Aus rice	New program	Development of modern Aus rice

e. Policy related

Subject	Source	Utility
Strategic Plan for Increasing Aus and Aman Rice Cultivation in Bangladesh	Presented at the Workshop	Increase the water saving and ecofriendly Rainfed Rice Technology.
Rice vision 2050 and beyond	Bangladesh Rice J. 19 (2): 1-18, 2015	Sustainable rice food security

17. Some special activities (from SO to CSO)

Assigned organization	Position	Activities
BARC	Collaborator	Biological Nitrogen Fixation Project: Use of Azolla as an alternative source to Nitrogenous fertilizer.
IRRI-BRRI	Collaborator	Rainfed Low land Rice Research Consortium
IRRI-BRRI	Collaborator	Upland Rice Research Consortium
CSISA-obj. 3	Collaborator	High temperature and Cold
JIRCAS	Principal investigator	Impact Assessment of Climate Change on Production and Market of Agriculture Products: A joint Research between JIRCAS and BRRI.
FAO	Lead researcher	Livelihood Adaptation to Climate Change (Focal Point-BRRI component)
MOA	Focal point	Preparation of Pilot Program for Climate Resilience

18. Activities executed as Director (Administration and Common service)

Partitioing of Duties	Activities
Mediator	Act as media between the MOA and BRRI.
Administration	Regular administrative service for laboureres, security personnels, staffs and officers and scientists (1000). Provide administrative and financial training. Recruitment of scientists officers staffs and Labour.
Finance and Accounting	Budget (Revinew, non-development and development) preparation and pursuation from Ministry of Finance thourgh Ministry of Agriculture (MOA), Fund release, audit disposal, all kinds of monitory transactions, salary etc.
Security maintainance	Management of around 200 security personnel from ministry of Home.
Building and construction	Infra structure planning, development, construction and maintainance.
Planning and Evaluation	Project planning and provide guideline in implimentation.
Procurement	Procurement of goods and services following public procurement rules.
Store maintainance	Storage of farm produce
Transport and Workshop	Maintainance of vehicle, vechicle distribution for regular service, and workshop maintainance.
Dormitory and cafeteria	Guest management and provide service
School	Running schools (Primary and high) and to maintain very high

	quality education for the BIRRI and the adjacent area children.
Infirmary	Medical are for BIRRI family

19. Activities executed as Director (Research):

Partitioing of Duties	Activities
Coordination	Provide leadership to identify problem to conduct problem oriented research. Integration of multidisciplinary research approach (19 research division, 9 regional station, 8 program area)
Advisory service	Ingration of Research review through 20 study group
Capacity development	Development policy HRD through higher study and training.
Liasion	Maintained relationship with Department of Agriculture Extension, Bangladesh Agriculture Development Corporation, different institutions, universities at home and abroad, GO and NGO institutions, IRRI, KOICA, USAID, FAO, JICA, JIRCAS, Bill and Millenda Gates foundation etc..
Technology Transfer Workshop	DAE-BIRRI-Farmers-Millers-NGOs-Private Sectors-Univ.
Publication and Public Relation	Publication of Annual report, Bangladesh Rice Journal, Rice Production Manual, Rice quarterly bulletin etc.

20. Activities executed as Director General

a) General

Partitioing of Duties	Activities
Strategic meeting	Secretary and Minister, MOA, Executive Chairman, Bangladesh Agriculture Research Council Director General of Department of Agriculture Extension Chair, Parliamentary standing committee of MOA National and International organizations, Universities and Private sectors
Administration	Overall planning and supervision of institute's rules and regulation Guide Director (Administration and CS) and provide advisory service) in all respects to run the institute smoothly.
Research	Guide Director (Research) to assist in designing research policy plan, project planning and management, undertaking problem oriented research plan development.

b) Achievements under my guidance as Director General

Subject	Achievement
Variety release	BRRRI dhan63 (Premium quality), BRRRI dhan64 (Zinc rice), BRRRI dhan65 (upland), BRRRI dhan66 (Drought tolerant), BRRRI dhan67 (Salinity tolerant), BRRRI dhan68 (HYV Boro), BRRRI dhan69 (Low input), BRRRI dhan70 (Aromatic), BRRRI dhan71 (drought tolerant), BRRRI dhan72 (High Zinc), BRRRI dhan74 (High Zinc), BRRRI dhan75 (Resource saving, little sticky), BRRRI dhan76 (for Non saline tidal prone area) and BRRRI dhan77 (for Non saline tidal prone area)
Pest Management	Neck blast, False smut, bacterial blight and BPH management. Eco-Engineering for pest management.
Farming system	Bench mark information of existing Farming System all over Bangladesh. Integrated Rice Fish and vegetable cultivation in gher land of coastal zone

c) Projects during my tenure as DG

Sl No.	Project	Fund	Comments
1	Mujibnagar Integrated Agricultural Development Project (BRRRI-component)	GOB	Completed
2	Integrated Agricultural Productivity Project (BRRRI-component)	GOB	Completed
3	Enhancing Quality Seed Supply (BRRRI-component)	GOB & IDB	In progress
4	Integrated Agricultural Development Project in Pirojpur-Gopalganj-Bagerhat (BRRRI-component)	GOB	In progress
5	Farm Machinery Technology Development and Dissemination (BRRRI-component)	GOB	Completed
6	Minimizing Rice Yield Gap Project (BRRRI-Component).	GOB	Completed
7	Rainfed Low Land Rice	IRRI	Completed
8	Stress-tolerant Rice for Africa and South Asia	IRRI	In progress
9	Development of Research Capacity of the Bangladesh Rice Research Institute	GOB & KOICA	Completed
10	Cereal System Initiative in South Asia	IRRI	Completed
11	Mitigating greenhouse gas (GHG) emissions from rice-based cropping systems through efficient fertilizer and water management	IFDC and KGF	In progress
12	Climate change impacts, vulnerability and adaptation: sustaining rice production in Bangladesh	BIOFORSK	Completed
13	Transforming rice breeding through capacity enhancement of BRRRI	BMGF	In progress
14	Hybrid rice research capacity development of Bangladesh Rice research Institute	PR China	In progress
15	Expedite hybrid rice research and development	PR China	Yet to

	through establishing hybrid rice centre in Bangladesh		clearance from ERD & PC
16	Strengthening research and infrastructure development of BRRI (Mega project)	GOB	Just initiated
17	Cropping System intensification in the salt affected coastal zones of Bangladesh and West Bengal, India.	ACIAR & KGF	In progress

21. Relationship with different universities and GO-NGOs as Director General

Sl no	University	Nature of relationship	
1	BAU		MS and PhD advisor
2	SAU	Adjunct Faculty	MS and PhD adviser
3	BSMRAU	Syndicate member	Graduate school representative MS and PhD adviser
4	PSTU	Regent Board Member	MS adviser
5	DUET	Syndicate member	
6	JU	Senate member	
7	JSTU	Regent Board Member	
8	BUET		MS adviser
9	SyAU	Syndicate	Ph D adviser
10	IUBAT		BS Ag student internship

22. Student Supervised

a. Master of Science

Sl#	Name	Subject and University	Degree	Name of the Thesis	Thesis status
1	Md. Aminul Islam	Crop-Bot, BAU	MS	Rice germplasm suitable for seedling establishment under lowland conditions.	Degree awarded
2.	ASM Tareq Khan	Crop-Bot, BAU	MS	Acetic acid effect on seedling growth of some anoxia-tolerant rice genotypes.	Degree awarded
3	Md. Shahidul Islam	Crop-Bot, BAU	MS	Physiological aspects of seedling establishment of BRRI-developed rice genotypes under lowland conditions.	Degree awarded
4.	Md. Mesbaur Rahman	Crop-Bot, BAU	MS	Seedling attributes of land race rice genotypes for better seedling growth.	Degree awarded
5.	Md. Mazibur Rahman	Crop-Bot, BAU	MS	Anti-oxidant Selenium content in landrace rice genotypes.	Degree awarded
6.	Khondoker Shamim Akter	Crop-Bot, BAU	MS	Seed-priming effect on seedling establishment	Degree awarded

				under lowland conditions.	
7	Md. Abul Hasan	Crop-Bot, BAU	MS	Study the extent of anoxia and submergence tolerance of Swarna-Sub 1 rice.	Degree awarded
8	Kazi Md Raihan Gafur	Crop-Bot, BAU	MS	Comparative root-growth behavior of some rice genotypes grown under aerobic and anaerobic conditions.	Degree awarded
9	Kamrun Nahar	Agri-Bot, SAU	MS	Screening of rice genotypes against low temperature stress.	Degree awarded
10	Jayanta Kumar Basak	Civil and Environmental Engineering, BUET	MS	Effects of climate change on boro cultivation in Bangladesh.	Degree awarded
11	Md. Masud Hossain Polash	Crop Botany BSMRAU	MS	Mechanism of cold tolerance in Rice	Degree awarded
12	Md Hasan Siddiki	Agro Botany PSTU	MS	High temperature tolerance of rice	Degree awarded
13	Zahid Hasan	BOU	CEMBA	Impact of climate change on rice production in Bangladesh	Degree awarded

b. Ph D Students

Sl no	Name	Univ	Dissertation (Title in short)	Status
1	Md. Moinul Haq	SAU	Inbred and Hybrid rice varieties	Graduated
2	Sukdeb Das	BSMRAU	Seed technology	Graduated
3	Mst Salma Pervin	BAU	Drought tolerance of T. Aman	Submitted
4	Halima Jesmin	SAU	Drought tolerance of Aus rice	Submitted
5	Nasima Akhter	SAU	Submergence tolerance of T. Aman rice	Submitted
6	Mohidur Rahman	SAU	Drought tolerance of T.Aman rice	Submitted
7	Badrun Nahar	Sy AU	False smut of rice	In progress

23. Relationship with GO, NGO and some International organizations.

GO	
Minister	Monthly Annual Development Program meeting
Secretary	Monthly coordination meeting
BADC	Seed increase from Breeder seed
DAE	Extension and training
NGO/Organization	
PKSF	Training
BRAC	R and D and Seed increase of Inbred and Hybrid
GAIN	Fortification, value chain
Renata	Low Glycemic Index (diabetic rice) marketing
Syngenta	Agriculture mechanization, transplanting and harvesting
ACI	Extension, Marketing and Mechanization of Agriculture implements
CCDB	Training and extension of Zn rice
Sojag	Training, seed increase and Mechanization
Banik Agril Club	Training and Extension

24. Professional membership

Sl no	Name of the Profession	Nature of membership
1	Bangladesh Association for the Scientists and Scientific Professionals	Life
2	Bangladesh Weed Science Society	Ordinary
3	Bangladesh Agronomy Society	Life
4	Asiatic Society of Bangladesh	Ordinary
5	Japanese Society of Soil Science and Plant Nutrition	Ex-member
6	Crop Science Society of Japan	Ex-member
7	Bangladesh Association for the Advancement of Science	Life
8	Krishibid (Agriculturist) Institution of Bangladesh	Life

25. List of countries visited on different objectives

Country	Duration		Subject
Philippines	1-2-1988	25-3-1988	Simulation and System Analysis in Rice Production (Training at IRRI)
Philippines	1989		Simulation and System Analysis in Rice Production (7- day-Workshop at IRRI)
Philippines	5-6-1991	19-4-1994	Ph D; CLSU-IRRI
Indonesia	4-1-1996	13-1-1996	Upland rice research workshop
Japan	1-4-1999	13-1-2001	post Ph D (JSPS fellow)
Philippines	8-3-2010	10-3-2010	The impacts of El Nino Southern Oscillation (ENSO) events on cereal production area and yield.
Philippines	25-10-2010	27-10-2010	The impacts of El Nino Southern Oscillation (ENSO) events on cereal production area and yield. Workshop
Thailand	27-11-2011	3-12-2011	Training workshop on communicating research of stakeholders.
Japan	28-11-2012	29-11-2012	International Symposium on Resilient Food Production Systems: The Role of Agricultural Technology Development in Developing Regions.
Germany	16-1-2014	17-1-2014	Expert Panel Discussion at the 2014 Global Forum for Food and Agriculture.
Rwanda	31-3-2014	2-4-2014	Global conference of Biofortification
Vietnam	8-4-2014	10-4-2014	13 th CURE Review and Planning and Steering Committee Meeting.
Nepal	17-10-2014	20-10-2014	Workshop on regional cooperation on seed sector
India	02-12-2014	04-12-2014	CORRA-GRIISP workshop
India	25-01-2015	30-01-2015	Exposer visit at IRRI-India, ICARDA office ICAR Delhi, CRRRI Cuttack.
China	12-09-2015	20-09-2015	MINisterial Seminar on Food Security for Developing countries.
Philippines	09-04-2016	16-04-2016	Transforming Rice Breeding through capacity enhancement of BRRI (TRB) exposer visit to experience regarding recent RGA and other facilities at IRRI

26. Publication list

a. Summary list of Scientific publication: (list attached below)

Sl. No.	Scientific Publication	Publication (No.)
1	Article published in international/national journals: (Full length) a. Principal author b. Co-author	20 34
2	Articles published in international/national journals: (Short length) a. Principal author b. Co-author	02 01
3	Articles published in proceedings of workshop a. Principal author..... b. Co-author.....	01 01
4	Articles presented in Book a. Principal author..... b. Co-author.....	04
5	Monogram/brochure etc. a. Principal author..... b. Co-author.....	03
6	Book a. Principal author..... b. Co-author.....	02 02
	Total	70

b. Summary list of popular article/sub-editorial

News Paper/ Monthly	Popular article/ Sub editorials (Mostly on Rice) in different National daily (Bangla/ English)	Comment
Sangbad	239	Bangla
Daily Sun	37	English
Daily Independent	07	English
Daily Star	03	English
Daily Observer	02	English
Banglar Bani	004	Bangla
Desh Jamin	008	Bangla
Kaler Kantha	015	Bangla
Samakal	006	Bangla

Sokaler Khobor	001	Bangla
Technology Today	008	Bangla
Krishi Kagoj	002	Bangla
Total	355	

27. Scientific articles with detail information

a. As Principal author:

1. **Biswas, J.K.**, H. Ando and K. Kakuda. 2001. Effect of volatile fatty acids on seedling growth of anoxia-tolerant rice (*Oryza sativa* L) genotypes. Soil Sci. Plant Nutri. 47: 87-100. To link to this article: <http://dx.doi.org/10.1080/00380768.2001.10408371>
2. **Biswas, J.K.**, H. Ando and K. Kakuda and B.H. Purwanto. 2001. Effect of calcium peroxide-coating, soil source and genotype on rice (*Oryza sativa* L) seedling establishment under hypoxic conditions. Soil Sci. Plant Nutri. 47: 477-488. Japan. <http://www.tandfonline.com/doi/abs/10.1080/00380768.2001.10408412>
3. **Biswas J.K.**, H. Ando and K. Kakuda. 2002. Seedling establishment of anoxia-tolerant rice (*Oryza sativa* L) genotype as affected by anaerobic seeding in two different soils. Soil Sci. Plant Nutri. 48: 95-99
(<http://www.tandfonline.com/doi/pdf/10.1080/00380768.2002.10409176>)
4. **Biswas, J.K.**, H. Ando and K. Kakuda. 2001. Response of rice genotypes to dissolved oxygen during seedling establishment under lowland conditions. International Rice Research Notes (IRRN). 26:2:76-77. The Philippines.
5. **Biswas, J. K.**, K., M.S. Islam, R. Yasmeen, M. S. Pervin, M.S. Kabir and S. Alam. 2002. Relative contribution of the coleoptile and the first leaf length to seedling establishment of rice (*Oryza sativa* L) as affected by anaerobic seeding in two soils. Pak. J. Biol. Sci. 5: 413-415. Pakistan.
6. **Biswas, J.K.** H. Ando, R. Yasmeen, S.T. Hossain, M.A. Siddiquee and A.J. Mridha. 2001. Seedling establishment of an anoxia-tolerant rice genotype as affected by soil source and days after submergence. Pak. J. Biol. Sci. 4: 1495-1497. Pakistan
7. **Biswas, J.K.**, H. Ando, K.I. Kakuda, M.A. Siddique, S.T. Hossain, S.K. Biswas. 2001. Comparative toxicity of aliphatic and aromatic acids on seeding attributes of anoxia-tolerant rice (*Oryza sativa* L) genotypes grown in hypoxia. Pak.J.Biol.Sci 4:1341-1344. Pakistan.
8. **Biswas, J.K.**, H. Ando, M.A. Siddiquee, R. Yasmeen, S. T. Hossain and A. A. Mahboob. 2002. Organic acid toxicity on seedling attributes of anoxia-toleant rice genotypes grown in hypoxia.. Pak. J. Biol. Sci 5: 36-39. Pakistan.

9. **Biswas, J.K.,** M.S. Pervin, R. Yasmeen, M.R. Islam and M.F. Islam. 2003. Seedling establishment of anoxia-tolerant rice genotype as affected by straw content and soil incubation. *Bang. J. Agril. Res.* 28(3): 399-405.
10. **Biswas, J.K.,** M.S. Pervin, M.A. Siddiqueee, S.T. Hossain and A.A. Mahbub, 2000. Genotype response of Rice (*Oryza Sativa L*) seedling growth as affected by volatile fatty acids. *Bang., J. Environ. Sci.* 6: 155-159.
11. **Biswas, J.K.,** M. A. Hossain, B.C. Sarker, M. Hasan and M. Z. Haque. 1998. Yield performance of several rice varieties seeded directly as late Aman crops. *Bang. J. Life Sci.* 10 (1&2): 47-52.
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28. Popular article /sub editorial

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1	Growing rice under stress environment (23 rd Anniversery issue)	15/03/2014
2	Food auterky: Rice diliema (20 th Anniversery issue); 2 nd Author	24/03/2011
3	Transforming rice breeding (24 rd Anniversery issue)	02/02/2016

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2	Quack Plant Breeder: the consequences	11.12.10
3	Hari Dhan: Myth or Reality	17.12.10
4	Hari dhan: Myth or reality-a response to critic's response.	29.12.10
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145	Rice ratooning	01/10/2011
146	Homestead vegetable gardening: some models	20/11/2011
147	Acharya PC Roy: tribute to 150th birth annerversiry	27/11/2011
148	More about Aus	12/08/2012
149	I have to wait until his auspicious return	19/08/2012
150	Debate over life cycle: direct seeded vs transplanted rice	15/07/2012
151	C4 rice: Future rice?	5/08/2012
152	BIRRI dhan28 and BIRRI dhan29: Are these varities responsible for diabetes?	17/06/2012
153	Our gene bank: the bank stands on love	17/06/2012
154	Green super rice: Probability of appropriate rice technology	08/04/2012
155	Land race varities: some relevant thoughts	17/06/2012
156	Fertilizer management: Few essential considerations	31/03/2012
157	Sterility in Boro rice: some prescriptions	15/04/2012
158	Intensive rice cultivation: Use of information technology	07/11/2013
159	Aug 15: Still we feel that Bangabandhu is amongst us	17/08/2013
160	Waiting for another meracle rice varities	10/06/2013
161	A day with science and the Asiatic Society	10/11/2013
162	Aus rice and varieties of rice	21/07/2013
163	Congratulation BINA for the special contribution in rice research	25/5/2013
164	Dan Mozena visits BIRRI	28/04/2013
165	Decreasing biodiversity: a threat to agriculture	17/11/2013
166	Biofortification: duet of agriculture and nutrition science	06/07/2013

167	Leakage in rice research at BRRI: time to repair it now	02/11/2013
168	Rice crop manager: a digital fertilizer management tool	23/11/2013
169	Rice-yield-increase research: where is our position	21/12/2013
170	Talented rice scientist Dr. Hasanuzzaman is gone at last	28/12/2013
171	Tales of light and dark	30/11/2013
172	Vitamin A: what and why?	14/12/2013
173	Biodiversity and Agriculture	29/06/2013
174	Cadmium in rice: a recent matter of issues	13/07/2013
175	A new way to think about drought and Aman rice	03/08/2013
176	Think yourself as a labor and pay respect a labor as a human being	17/08/2013
177	Zink rice and some more rice varieties	31/08/2013
178	Satkhira and different kinds of experiences on rice	14/09/2013
179	We have to consider the limitation of soil	21/09/2013
180	Chanakya and some random thoughts	28/09/2013
181	BRRI's birth day in silence and	05/10/2013
182	Flash back <i>Durga Pujo</i> , Deep water Rice and praying for Peace	12/10/2013
183	Our Farm-culture: Lalon and his guro Siraj Sain	15/03/2014
184	Balam (a kind of quality rice form Barisal) rice: problems and prospects	08/03/2014
185	Rice strategy: as FAO is thinking	08/02/2014
186	Aus from Faridpur and news about Nitrogen efficient gene (qNGR9)	07/06/2014
187	Genome sequencing of three thousand rice: a unique effort	21/06/2014
188	Rice research and our preparation for the future	05/07/2014
189	Climate smart village: Chanakya's thought and today's reality	12/07/2014
190	BRRI sings the national anthem with the millions	29/03/2014
191	Plants also become the victim of terrorism	04/01/2014
192	Trip to German just for a day: experience on nutrition	01/02/2014
193	Some concerns on Aus rice	01/03/2014
194	BRRI dhan58 and a few more inventions	31/05/2014
195	Sterility in Boro rice: BRRI's intervention	24 /05/2014
196	Prospects of Aus and Aman rice cultivation	17/05/2014
197	Biofortification, Dr. Swaminathan and a flash from Africa	12/04/2014
198	Kigali to Danang, Danang to Dhamoir Hat	26/04/2014
199	400 ppm CO ₂ : what next?	19/05/2014
200	Role of CO ₂ for our existence	11/05/2013
201	Pangsha and Jute: some personal feelings	23/06/2013
202	BRRI in between the expectation and risk	30/05/2014
203	Elegy for Yori: a puppy for his accidental death	19/01/2014
204	BRRI could get the nobel prize too	09/02/2013
205	A symposium on resilient food production: Japanese experience	08/12/2012
206	The role PST gene in increasing yield	22/10/2012
207	The dream of an Agriculturist, Poet and Politicians	02/02/2013
208	JL sen: a scientist worked behind the screen	08/10/2012
209	End of <i>Poush</i> and but not later than <i>Magh 12</i>	25/01/2013
210	JIRCAS activities across the world and we	29/12/2012
211	Organic agriculture: old wine in new bottle	20/10/2012
212	<i>Durga's</i> visit on Elephant ride and the random thoughts on rice yield	10/11/2012
213	Why don't we have progress in DWR	17/11/2012
214	BRRI biotechnology research deserves further care	16/03/2012
215	Cold related complexities for Boro and the related issues	09/03/2013
216	Krishid dibosh and the Bangabandhu	16/02/2013
217	Gloomy spring full moon festival: still a message of some new varieties.	20/03/2013
218	Agriculture on the wings of fire: Sheikh Mujib to Sheikh Hasina	06/04/2013

219	Some tips for Aus cultivation	20/04/2013
220	Philosophy of mystic poet Lalon: can we adopt that	23/03/2013
221	So BRRI has failed. What do you think?	15/06/2013
222	BRRI promotion system and some complications	22/12/2012
223	<i>Lal Paikka</i> and <i>Shibjota</i> two landrace added in the list of BRRI germplasm	15/09/2012
224	Rice research in Japan	15/12/2013
225	Can a rice variety equally tolerant to both lowland and upland conditions?	29/12/2012
226	How was the BRRI research review this year?	06/10/2012
227	Rice cool injury: some considerations to overcome	12/01/2013
228	Rabindranath's thought on Agriculture	12/05/2012
229	Some suggestions to bring back the old varieties	21/04/2012
230	Concern about rice sterility: some recent thoughts	05/05/2012
231	Some essential thoughts regarding pest management	28/01/2012
232	March and Boro rice: my personal reminiscence	10/03/2012
233	Irrigation in the coastal belt	03/03/2012
234	Living with rice and its pests	11/02/2012
235	Memoir of some labors helping rice research at BRRI	02/06/2012
236	Talks of human nutrition and rice	11/03/2012
237	Location specific Boro seedling age	07/01/2012
238	How will a BRRI variety perform in Africa?	21/01/2012
239	Talks about polished and unpolished rice	24/03/2012

Published in the page of Science and Technology in the daily Sangbad, Ittefaq, Banglar bani, Desh Jamin)

No	Title	Name of the daily	Publication date
1	Agriculture of the Future	Sangbad	March 6, 20; 1990
2	Wild rice and Biotechnology	Sangbad	June 19, 1990
3	IRRI new plant type and our expectation	Sangbad	September 29, 1996
4	Insecticides: some essential issues	Sangbad	September 11, 1990
5	How much rice yield could be	Sangbad	February 8, 1988
6	Causes of sterility in rice yield	Sangbad	April 24, 1990
7	Future rice plant	Sangbad	October 10, 1989
8	Cold war in plant kingdom	Sangbad	July 24, 1990
9	Bee dance and computer	Banglar bani	August 31, 1991
10	Nim tree: a new hope to the farmer	Sangbad	Dicember 11, 1991
11	Farm at the bottom of the sea	Sangbad	January 16, 1990
12	Story of two exceptional garden	Sangbad	January 22, 1991
13	Micoreaza: a symbiotic fungus	Sangbad	July 21, 1996
14	Rainfed low land rice technology in Barnd	Sangbad	October, 27, 1997
15	Poor performance of BR11 in Rajbari	Sangbad	December ?, 1996
16	Azolla: instead of Urea	Sangbad	January 26, 1997
17	The land race rice: toward the verge of erosion	Sangbad	7 and 14 September, 1997
18	Crop modeling: understanding between crop and computer	Sangbad	October 16, 1990
19	Technolgy that could be could be harmful to the farmer	Deshjamin	August 2 2004

20	Siple lessons on Gene technolgy	Deshjamin	August 28 2004
21	Can a farmer be considered as Scientist?	Sangbad	May 18, 1997
22	Frog export and environmental balance	Ettefaque	January 21, 1991
23	Flowering behaviour in Jute	Banglar bani	July 13, 1990
24	Preventives from vegetables	Sangbad	August 10, 1997
25	Green house effect	Sangbad	Dicember 29, 1996
26	Transgenic Rice	Sangbad	August, 21, 1996
27	GM forest	Sangbad	August 18, 2004
28	Summer fruit: Water melon and musk melon	Sanggram	June 1, 1983
29	Air pollusion: a terrible problem	Banglar Bani	June 15, 1990
30	Tube rose: Economic point of veiw	Banglar Bani	August 4, 1990
31	Devastating flood:rehabilitation program through rice	Deshjamin	July 22, 2004
32	More about agri-rehabilitation	Deshjamin	August 22, 2004
33	Rehabilitation in the <i>Haor</i> : some alternative proposals	Deshjamin	September 8, 2004
34	Some problems in rice based rehabilitation program	Deshjamin	August 24, 2004
35	Flood and the wild cat	Deshjamin	August 2, 2004
36	Means to save boro rice from flash flood	Deshjamin	February 22, 2005

Kaler kantha (কালের কণ্ঠ) www.kalerkantho.com

Sl	Title (Translated into English)	Date of Publication
1	Agriculture for emergency and inter institutional coordination	02/03/2010
2	El nino La nina news	27/03/2010
3	Fate of climate change	29/01/2010
4	Aila, agriculture and achievment from Copenhegen convention	12/01/2010
5	Are BRRI dha28 and BRRI dhan29 responsible for Diabetes	09/06/2011
6	Founding anniversary of BRRI and a few words about its research performance	01/10/2011
7	Hilsha and environment related issues	13/04/2011
8	El nino southern oscillation and our agriculture	30/12/2011
9	Boro transplanting must not go beyond January 3rd week	21/11/2011
10	Late transplanted Aman and the agriculture right now	01/10/2011
11	Agriculture day and dream of Bangabandhu	15/02/2012
12	What could be done with rice for 7 billion people	11/02/2012
13	A brief account of DWR	13/08/2011
14	BRRI dhan47 is saline tolerant but...	17/06/2010
15	Raining uncertainty and transplanted Aman rice	03/09/2011

Samakal (সমকাল)

S1	Title (Translated into English)	Date of Publication
1	Boro production	17/12/2008
2	Every man fits his role	09/03/2009
3	Rice Ratoon: Folk science and agriculture	17/09/2008
4	ভাঙুগে দধি (Like father like son?)	05/01/2008
5	Seedling growing for Boro	22/12/2008
6	Late flash flood and agriculture rehabilitation program	23/09/2008

Sokaler Khobor

S1	Title (Translated into English)	Date of Publication
1	Strategies to increase cultivation: Aus-Aman (anniversary issue)	May 3rd week, 2014

Technology today: (Science monthly)

S1	Title (Translated into English)	Date of Publication
1	Alien gene and rice improvement:Prospects	12 January 2009
2	Bioinformatics: application in rice science	09 October 2008
3	Crop modeling	20 November 2008
4	Information science and Agriculture	08 September 2008
5	Hybrid Rice	02 April 2009
6	Rice based farming adaptable to saline belt	06 December 2009
7	Golden rice: debate and prospect	08 February 2010
8	Rice yield and some complex equation	09 March 2010

Krishi kagoj (Agriculture monthly)

S1	Title (Translated into English)	Date of Publication
1	Rice research: Past, present and Future	May, 2016
2	Food security: Rice based strategy	June, 2016

29. a) Books in Bangla

1. কৃষি ও বিবিধ ভাবনা (সংবাদের বিজ্ঞান ও প্রযুক্তির পাতায় প্রকাশিত সব প্রবন্ধ এক সাথে করে নিজস্ব প্রকাশনা) **Agriculture and different thoughts (Puronal publication)**
2. ধান গবেষণা: শত বর্ষের কিছু কথা, প্রকাশক: **Century of Rice Research: Technology Today Publishers. ISBN : 978-984-33-2846-5**
3. জলবায়ু পরিবর্তন: কৃষিতে অভিযোজন (2nd Author): cK\kK: mvC` v Av³vi, 86/13, WMi tgvoV; mAvic tiW, XvKv (**Climate Change: Adaptation technology in Agriculture**)

b) Book in English

1. Cold stress tolerance in rice plant: Screening of genotypes based on morphophysiological traits Paperback – August 2, 2012
by [Kamrun Nahar](#) (Author), [Jiban Krishna Biswas](#) (Author), [A.M.M. Shamsuzzaman](#)
Paperback: 104 pages
Publisher: LAP LAMBERT Academic Publishing (August 2, 2012)
ISBN-10: 3659177326
ISBN-13: 978-3659177323

c) গবেষণামূলক (Monograph)

- 1! "#\$%³ %"vKv A&†' v (b) c†' vM* +vb, &#-K c'v³: **First Author (Rice based farming in the saline belt)**
- /!)02 #†i3`4 A5†" %K m" Avgb +v†bi (vg†6 i#k†m7i 1v8 †9Km: c'v³: **Last Author (Appropriate technology for High Barind tract)**

30 a) A few important newspaper clips.

<http://www.theindependentbd.com/arcprint/details/39144/2016-04-01>

b) An exclusive TV interview on Channel 24 on March 9, 2016.

Part	Program	
	Towards growth	
Part 1	https://www.facebook.com/nuraiya.kulsom/videos/922960714469467/	
Part 2	https://www.facebook.com/nuraiya.kulsom	
Part 3	https://www.facebook.com/nuraiya.kulsom	

Part 2	https://www.youtube.com/watch?v=X6tsWIonZBY	
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31. Journal Editing
Chief Editor
Bangladesh Rice Journal (ISSN 1025-7330)

32. Award

a) Award (Personal achievement)

Award	Given by	Reason
Gold Medal	Bangladesh Academy of Agriculture (BAAG)	Outstanding leadership in Rice Research and Development

b) Institutional achievement under my leadership

Sl no	Award	offered by
1	Best Institute Award	Dhaka Chamber of Commerce and Industry
2	Best Institute Award	Krishibid (Agriculturist) Indtitute, Bangladesh
3	Bangabandhu Gold medal	Peoples Republic of Bangladesh

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34. Abbreviations used in this CV

Acronym	Complete Phrase	Comment
ACI	Advance Chemical Industries	Some of these works are devoted to Agricultural business, research and development
ACIAR	Australian Centre for International	Works for the well being for the

	Agriculture Research	developing world and /Australia.
BAAG	Bangladesh Academy of Agriculture.	A non-government professional organization of senior agriculturists.
BAU	Bangladesh Agriculture University	
BOU	Bangladesh Open University	
BIOFORSK	Norwegian Institute of Agriculture and Environment	Institute for multifunctional agriculture and rural development.
BRAC	Bangladesh Rural Advancement Committee	International Development Organization based in Bangladesh
BRII	Bangladesh Rice Research Institute	
BSMRAU	Bangabandhu Sheikh Mujibur Rahman Agricultural University	Agricultural University
BUET	Bangladesh University of Engineering and Technology.	Engineering University
CCDB	Christian Commission for Development, Bangladesh	Development works
CEMBA	Commonwealth Executive Master of Business Administration.	MBA degree by BOU
CORRA	Council for Partnership in Rice Research in Asia	IRRI project
CRRI	Central Rice Research Institute	
CSISA	Cereal System Initiative in South Asia	IRRI Project
CSO	Chief Scientific Officer	
CURE	Consortium for Unfavourable Rice Environment	IRRI project
DSSAT	Decision Support System for Agrotechnology Transfer	Crop modeling tool
DUET	Dhaka University of Engineering and Technology.	
GAIN	Global Alliance for Improved Nutrition	Development organization worked on alleviation of malnutrition.
GRiSp	Global Rice Science Partnership	
HRD	Human Resource Development	
IUBAT	International University of Business Agriculture	First Private University in Bangladesh
ICARDA	International Center for Agriculture Research in the Dry Areas.	
IFDC	International Fertilizer Development Corporation.	Worked fertilizer deep placement and Green House Gas emission.
JIRCAS	Japan International Center for Agriculture Science	Internationally Research Institute for Agricultural development.

JU	Jahangirnagar University	
KIB	Agriculturist Institution of Bangladesh	Platform of All Agricultural Graduates of Bangladesh.
KOICA	Koria International Cooperation Agency.	Worked for the mechanization of Agriculture in Bangladesh.
MCCI	Metroplipton Chamber of Commerce and Industry	Oldest trade Organisattion of Bangladesh
MOA	Ministry of Agriculture	
PKSF	Palli Karma-Sahayak Foundation	GoB established Sustainable poverty reduction organization
PPP	Public Private Partnership	
PSO	Principal Scientific Officer	
PSTU	Patuakhali Science and Technology University.	Agriculture dominted University
RGA	Rapid Generation Advance	
RLRRC	Rainfed Lowland Rice Research Consortium	IRRI Project
SAU	Shere Bangla Agrocuture University	Agriculre University
SO	Scientific Officer	Entry point research officer
SSO	Senior Scientific Officer	
STRASA	Stress Tolerance Rice Research in Africa and South Asia	IRRI Project
SyAU	Sylhet Agriculture University	Agriculture University

