CURRICULUM VITAE

Personal profile

Name : **AKM SAIFUL ISLAM**
Father name : Late Md Faiz Uddin
Address : Faiz Villa, House No. A/72, Talbag, Savar-1340, Dhaka
(Permanent & present) Mobile- 01730-443842; Email: akmsaiful68@yahoo.com

Date of birth : May 09, 1968
Nationality : Bangladeshi
Language : Bangla (mother tongue), English

Education

PhD in Farm Power and Machinery (Ag. Engg.) From Bangladesh Agricultural University (BAU), Mymensingh completed in 2012

Post Graduate Diploma course on Agricultural Mechanization and Machinery Engineering in Silsoe College, Cranfield University, UK during 1997

MS in Farm Power and Machinery (Ag. Engg.) From Bangladesh Agricultural University (BAU), Mymensingh, Passed in 1996 and obtained **First Class (Grade A)**

BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING from Bangladesh Agricultural University (BAU), Mymensingh, Passed in 1990 and obtained **First Class and stood First**

Employment Experiences: **28** (Twenty-eight) **plus years** and Records:

Duration : 7th December 2022 to Date
Employer : Bangladesh Rice Research Institute, Gazipur
Position : **Chief Scientific Officer, Farm Machinery and Postharvest Technology Division**

Duration : 16 April 2014 to 6th December 2022
Employer : Bangladesh Rice Research Institute, Gazipur
Position : **Principal Scientific Officer, Farm Machinery and Postharvest Technology Division**

Duration : 01 June 2006 to 15 April 2014
Employer: Bangladesh Rice Research Institute, Gazipur
Position :**Senior Scientific Officer, Farm Machinery and Postharvest Technology Division**

Duration : 20 August 1998 to 31 May 2006
Employer : Bangladesh Rice Research Institute, Gazipur
Position : **Scientific Officer, Farm Machinery and Postharvest Technology Division**
Duties : Machinery Development, Machinery Testing & Evaluation, Postharvest Technology Development, Renewable Energy Resources Development & Utilization and Adoption of Appropriate Agricultural Machinery.

Duration : Feb 1998 to Aug 1998
Employer : International Fertilizer Development Centre, Agro-based Industries and Technology Development Project, An USAID Supported Project of The Ministry of Agriculture
Position : **Assistant Program Officer (Agri-machinery and Agro-processing Equipment)**
Duties : Assess technological opportunities and constraints of agricultural machinery enterprises. Identify potential agricultural machinery manufacturers and provide technical assistance to these manufacturers. Prepare a detailed manual on operation, servicing, adjustment and safety procedures for each machine. Organize workshop, meetings and training programs on agricultural machinery production technologies to stimulate entrepreneurs to undertake commercial agricultural machinery production and marketing. Prepare, furnish and follow-up periodic reports and returns including assessment of project impacts to various entrepreneurs. Maintain liaison & support programs in other focus areas.

Duration : Nov 1997 to Feb 1998 Employer : Secom Limited, Dhaka Position : **System Analyst** Duties : Processing data on customer's demand, Developing software to meet specific requirement of the valued customers at home and abroad, Organize training courses on the latest software applications.
Duration: Jul 1997to Oct 1997 Employer : Kranti Associates Ltd, Dhaka Position :**Computer Programmer** Duties : Benefit Monitoring and Evaluation of the Khulna -Jessore Drainage Rehabilitation Project of Bangladesh Water Development Board. Planning, Organizing and Coding the Questionnaires, Assist in checking, verifying and editing data. Develop customize program for data analysis, Produce output tables.
Duration : May 1995 to Dec 1996 Employer : Bangladesh Agricultural University, Mymensingh Position : **Research Associate** Duties : Ploughs for Poor Farmers of Bangladesh Project Assist the team in designing the questionnaires for field survey, Planning, Organizing and Coding the Questionnaires, Assist in checking, verifying and editing data, Develop Customize program for data analysis, Produce output tables and their analysis, Report Preparation.
Duration : Jan 1994 to April 1995 Employer : Bangladesh Agricultural University, Mymensingh Position : **Research Associate** Duties : Energy Requirement and Cost Audit under Rice-Based CDP Cropping System project Assist the team in designing the questionnaires for field survey, Planning, Organizing, and coding the Questionnaires, Assist in checking, verifying and editing data. Develop customize program for data analysis, Produce output tables and their analysis, Selection of most profitable cropping pattern through Critical Path Method (CPM). Sd, CV, Correlation, Correlation Matrix, Regression, Multiple Regression Analysis & Report Preparation.

Professional Trainings:

A. Foreign training:

Field of Training	Place and country	Duration		
		Starting time	Completion time	Length
Farm machinery	Tamil Nadu and Bhopal, India	22/06/2000	04/08/2000	6 weeks
Study visit	Canton, China	17/10/02	24/10/02	1 weeks
International Training Course on New Technology of Agricultural Engineering	CAAMS, China	10/04/04	24/04/04	2 weeks
Rice Post Harvest Processing II	JICA, Japan	30/08/2005	12/11/2005	7 weeks

B. In-country Training:

Field of Training	Place	Duration		
		Starting time	Completion time	Length
Rice production, Communication & Office Management	HQ, BRRI	18/10/1998	15/12/1998	2 months
Technology Transfer on Water Management, Mechanization & Agro-Processing	HQ, BRRI & RDA, Bogra	24/05/1999	06/06/1999	2 weeks
Foundation Training Course	BARD, Comilla	17/10/1999	30/01/2000	15 weeks
AutoCAD	ATC, Dhaka	Feb,2000	Feb'2001	4 weeks
Training of Trainers on Participatory Reflection and Action	VERC, Dhaka	07/02/2001	14/02/2001	2 weeks
Project Cycle Management Course	RDA, Bogra	09/09/02	11/09/02	1 week
Participatory Technology Development with a systems and Sustainable Livelihoods Perspectives	FSES, BAU, Mymensingh	27/11/02	06/11/02	2 weeks
Safe use of herbicides and effective weed control	RDRS, Rangpur	16/01/11	20/01//11	1 week
Awareness Building on Act and Policies of Bangladesh Agriculture	BARC, Dhaka	26/02/19	27/02/19	2 days
Financial and procurement management	Sech Bhaban, Shere-E-Bangla Nagar, Dhaka	22/06/19	27/06/19	1 week

Other Experiences:

A) Participation in Technology Development and Transfer Activities

Sl no.	Name of the Technology Developed	Present Status of Adoption	Remarks
1	BRRI auto seed sower machine	Farmers accepted the technology	Technology transferred to the farmers field
2	BRRI internet control seed sower machine	Farmers accepted the technology	Technology transferred to the farmers field
3	BRRI remote control seed sower machine	Farmers accepted the technology	Technology transferred to the farmers field
4	BRRI solar powered seed sower machine	Farmers accepted the technology	Technology transferred to the farmers field
5	BRRI manual rice transplanter	Farmers accepted the technology	Technology transferred to the farmers field
7	BRRI rice transplanter (25 and 30cm spacing)	Farmers accepted the technology	Technology transferred to the farmers field
8	BRRI seed sower machine	Farmers, dealers and suppliers accepted the technology	Widely used in the farmers field
9	BRRI whole feed combine harvester	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
10	BRRI head feed combine harvrester	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
11	BRRI compact rice mill	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field

12	BRRI mini rice huller	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
13	BRRI solar light trap	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Widely used in the farmers field
14	BRRI rice straw rope maker	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
15	BRRI grain collector	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
16	BRRI chopper	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Widely used in the farmers field
17	BRRI chips maker	Farmers accepted the technology	Technology transferred to the farmers field
18	BRRI double huller	Farmers, entrepreneurs, manufacturer, policy makers accepted the technology	Technology transferred to the farmers field
19	BRRI noodles maker	Farmers accepted the technology	Technology transferred to the farmers field
20	BRRI dryer	Preliminary test done	
21	USG briquetting machine	Entrepreneurs of Bangladesh have accepted the technology	Entrepreneurs acceptability is quite satisfactory and farmers use USG extensively
22	Push type USG applicator	Tested further modification is needed	Location specific (North bengal) adaptable is good.
23	Power corn sheller	Adopted in Bogra district	Cattle farmers are getting benefit
24	UMB mixing machine	Adopted in Kapasia	
25	BRRI Weeder BRRI Rice-Wheat Reaper BRRI open drum power thresher BRRI Rice wheat thresher BRRI power winnower BRRI Chula	Adopted in Thakurgaon, Dinajpur, Bogra, Comilla districts and BRRI R/S	Conducting extensive demonstration program in 21 districts to popularize BRRI machine
26	Improvement of power transmission method in low cost opendrum thresher	Adopted in Comilla and Netrokona district on 50% cost share basis	Similar adoption model can be applied in other region of Bangladesh
27	Flywheel attachment in Power Thresher	Fabricated under PAMP project and disseminating in the 21 districts	Increases the threshing capacity up to 23% and clogging tendency was removed
28	Developed reverse mode PT mounted reaper	Developed last year through participatory technology development method with NGO and local workshop mechanic in Tangail district	Prototype tested and demonstrated in Tangail district under REFPI project
29	Developed self-propelled reaper		
30	Developed technology package for fine rice processing	Technology disseminated to the mill owner, rice exporters	
31	Improvement of Versatile Multi-crop Planter	Planter evaluated, improvement and disseminated to the farmers	Prototype tested and demonstrated in Rajshahi district
32	Development and Dissemination	Applicator developed,	Prototype tested and

	of BRRI prilled urea applicator	evaluated, and disseminated to the farmers	demonstrated in Gazipur, Rangpur, Comilla, Kushtia, Rajshahi, Joyrpurhat, Gaibandha, Gopalganj, Kurigram and Barisal district
33	Improvement of seedling raising technique suitable for mechanical rice transplanter	Technology disseminated throughout the country	DAE has taken the responsibility to disseminate the technology

B) Supervised MS and under graduate students

Sl. No.	Name of the student, Roll no. and Reg. no.	Title of the thesis	Year	Remarks
1	Md. Monowarul Islam Roll no. 8 Reg. 19484 (Session 1992-93)	Performance evaluation of locally made Hydro tiller	2001	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
2	Jibon Krishna Shaha Roll no. 3 Reg. 19456 (Session 1992-93)	A Study on the Economic Performance of small Engines used in Agriculture	2002	Department of Farm Power and Machinery, Bangladesh Agricultural University
3	Md. Masudul Karim Khan Roll no. 1 Reg. 20470 (Session 1993-94)	Comparative Performance of Closed Drum Threshers	2002	Department of Farm Power and Machinery, Bangladesh Agricultural University
4	Mohammad Zulfiqur Vhutto Roll no. 02 Reg. 21482 (Session 1994-95)	Study of coarse rice processing in commercial rice mills in Chapai Nawabganj	2004	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
5	Ajoy Kumar Singha Roll No. 23426 Session: 1996-97	Grading and quality of the popular rice varieties sold in selected local markets of Bangladesh	2005	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
6	Md. Mostafizar Rahman Roll No.08 Ag. Engg. FPM-JJ.10M Reg. No. 29760 Session: 2002-03	Prospect of rice bran oil production in Rangpur district	2009	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
7	Bhubaneshare Deb Barman Student Id: 0907038 Zakia Fardous Student Id: 0907052 Sadia Mubarak Student Id: 0907053 Semester: July –December, 2012	Effect of seed rate on missing hill and seedling density in mechanical rice transplanter	2014	Hajee Mohammad Danesh Science and Technology University, Dinajpur
8	Md. Tariqul Islam Roll No. 13FPM JD 03M Reg. No. 35609 Session: 2008-09	Management aspects and performance parameters of DAEDONG transplanter in relation to commercial use	2014	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
9	Imdadur Rahman Roll No. 13FPM JD 02M Registration No. 35542 Session: 2008-09	Yield characters and profitability analysis on mechanical transplanting over manual transplanting	2014	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh

10	Md. Samiul Islam Student Id: 0907054 Md. Rizwanur Rahman Student Id: 1007068 Jeenat Ara Student Id: 1007075	Study the present status of agricultural machinery manufacturing industry in Bogra and Dinajpur districts	2015	Hajee Mohammad Danesh Science and Technology University, Dinajpur
11	Jannatul Ferdows Student Id: 1007043 Shanjida Akter Shanta Student Id: 1007056 Farha Anjum Tapu Student Id: 1007059	Study on performance evaluation of self-propelled reaper	2015	Hajee Mohammad Danesh Science and Technology University, Dinajpur
12	Umma Habiba Student Id: 1007048, Sabia Afrin Student Id: 1007064 Habiba Jesmin Puspha Student Id: 1007070	Performance test of mechanical rice transplanter	2015	Hajee Mohammad Danesh Science and Technology University, Dinajpur
13	Nafisa Ahammed Khan Roll no. 14FPMJJ-09M Reg.: 36678 Session:2009-2010	Performance evaluation of BRRI prilled urea applicator at farmer's field	2015	Department of Farm Power and Machinery, Bangladesh Agricultural University, Mymensingh
14	MST. Mukta Parvin Student Id: 1107050 Dipika Roy Student Id: 1107066 Thamina Nasrin Student Id: 1107061	Evaluation of low land rice weeder in aus season at farmer's field	2016	Hajee Mohammad Danesh Science and Technology University, Dinajpur
15	Md. Samiul Alam Student Id:1007051 Md Sakib Shohel Student Id:1007052 Topu Kumar Roy Student Id: 1007073	Performance evaluation of BRRI prilled urea applicator in aus season	2016	Hajee Mohammad Danesh Science and Technology University, Dinajpur

C) Project building and execution

i. With Ministry of Agriculture
Executing GoB funded project **"Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation"** as Project Director since October 2019 to date.

ii. With Ministry of Agriculture
Executing program **"Field Trial and Demonstration of Promising Farm Machinery and Technology to the Farmers"** Pirojpur-Gopalganj-Bagerhat Integrated Agricultural Productivity (PGBIADP).

iii. With Ministry of Agriculture
Executing program **"Field Trial and Demonstration of Promising Farm Machinery and Technology to the Farmers"** under Mujibnagar Integrated Agricultural Development Project (MIADP) in Kushtia, Meherpur, Chuadanga and Jhenaidah district.

iv. With IRRI and CIMMYT

Developed and executed project entitled "Farm level evaluation of mechanical rice transplanter, BRRI weeder and BRRI prilled urea applicator to boost up agricultural mechanization". This research project was implemented in farmers' field, Rangpur and Jhenidah district.

v. With IDCOL, Bangladesh

Executed the program **"Determination of dynamic head, peak water demand, annual water demand in relation to rice based cropping system in 200 Upazillas of Bangladesh".** Report submitted to IDCOL, Bangladesh.

vi. With Ministry of Agriculture

Executing program **"Field Trial and Demonstration of Promising Farm Machinery and Technology to the LFS Farmers"** under Integrated Agricultural Productivity Project (IAPP) in northern and southern districts

vii. With ACI motors Ltd.

Executed project entitled **"Field performance of riding type transplanter at Bogra and Joypurhat district in Boro season"**. Tested and evaluated power tiller, walking type transplanter, shallow tube well, low lift pump, weeder, reaper and thresher.

viii. With Syngenta

Executed project entitled **"Evaluation of Tegra over traditional method of rice transplanting"** in Bogra district and Executed project entitled **"Observation on the tray requirement and area coverage of tranaplanter at Bogra and Joypurhat sites in Boro season"**

ix. With DAE, Rajshahi

Developed and executed project entitled **"Dissemination of BRRI Developed Reaper and Thresher in Digram Agricultural Block of Rajshahi District".** The project was executed with the DAE, Rajshahi under financial assistance of JICA, Japan.

x. With NGO, Gram Bikash Sahayak Sangstha, Narshingdhi

Executed **project entitled** "Introduction of Rice power threshers to the rural poor women in Narshingdhi district"**. The project was executed with the Gram Bikash Sahayak Sangstha Narshingdhi and funded by REFPI-BAU/DFID.**

xi. With NGO, PROVA, Rajshahi

Developed and executed project entitled **"Dissemination of BRRI farm machinery among the resource poor farmers and improvement of fine rice processing technology in north-west region of Bangladesh"**. The project was executed with the PROVA, Rajshahi and funded by PETRRA-IRRI/DFID.

xii. With NGO, CIRAD, Tangail

Developed and executed project entitled **"Extension and Promotion of BRRI Rice-Wheat Reaper in Tangail Districts"**. The project was executing with the Center for Integrated Rural and Agricultural Development (CIRAD), Tangail and funded by REFPI-BAU/DFID.

xiii. With Bangladesh Agricultural University

Developed and executed project entitled **"Adoption of Diesel Engine Operated Opendrum Thresher in Two Selected Upazillas of Bogra and Netrokona Districts"**. The project was executed with the Department of Farm Power and

Machinery, Bangladesh Agricultural University and funded by REFPI-BAU/DFID.

xiv. ARISAM project

Improvement and executed the project entitled **"Adaptive Research and Impact Study of BRRI Developed Agrimachinery at Selected Sites of Bangladesh (ARISAM)"**. The project was executed in Dinajpur and Thakurgaon district and funded by BARC.

D) Research program developed, supervised and executed

Sl. No.	Research program	Initiation	PI	CI	Remarks
1	Testing, evaluation and modification of BRRI machines	1998	PI	-	Developed, supervised, executed
2	Test, evaluation and adaptation of power operated Japanese rice transplanter (AP 200) in Bangladesh	1999	-	CI	Developed, supervised, executed
3	A system approach to assess energy utilization at different stages of rice production	1999	PI	-	Developed, supervised, executed
4	Adaptive Research and Impact Study of the BRRI Developed Agricultural Machinery at Selected Sites of Bangladesh (ARISAM)	1999	-	CI	Supervised, executed
5	Storage of paddy seed in lamofoil and poly bags	2000	-	CI	Developed, executed
6	Study on the effect of flywheel attachment on power thresher	2000	PI	-	Developed, supervised, executed
7	Demonstration of BRRI developed machinery at farmer's field	2001	-	CI	Developed, supervised, executed
8	Dissemination of BRRI farm machinery among the resource poor farmers and improvement of fine rice processing technology in North West region of Bangladesh	2002	-	CI	Developed, supervised, executed
9	Survey on the quality and acceptability of rice straw obtained from machine threshing	2002	PI	-	Developed, supervised, executed
10	Baseline survey of farm mechanization at selected sites of Bangladesh	2003	PI	-	Developed, supervised, executed
11	Farm level evaluations of BRRI machines	2003	PI	-	Developed, supervised, executed
12	Test and improvement of a self-propelled reaper for rice and wheat	2003	PI	-	Developed, supervised, executed
13	Training on operations, repair and maintenance of BRRI Machinery	2003	-	CI	Developed, supervised, executed

Sl. No.	Research program	Initiation	PI	CI	Remarks
14	Development of systems for multipurpose use of diesel engine of BRRI rice-wheat thresher	2004	-	CI	Developed, supervised, executed
15	Effect of field drying on the head rice recovery of long grain and aromatic rice	2004	-	CI	Developed, supervised, executed
16	Industry level research on the processing of long grain paddy	2005	-	CI	Developed, supervised, executed
17	Study of the milling machinery suitable for long grain rice	2005	-	CI	Developed, supervised, executed
18	Impact study of BRRI rice-wheat thresher-owning farmers and thresher manufacturer in Thakurgaon district	2005	PI	-	Developed, supervised, executed
19	Milling and processing of premium quality rice	2006	PI	-	Developed, supervised, executed
20	Evaluation of furrow maker and compared with conventional practices	2009	-	CI	Developed, supervised, executed
21	Improvement of Multicrop Planter	2009	PI	_	Developed, supervised, executed
22	System productivity of rice-maize cropping system under conservation tillage practices	2009	PI	-	Developed, supervised, executed
23	Effect of tillage and residue retention on soil physical and chemical properties in rice-maize cropping systems	2009	PI	-	Developed, supervised, executed
24	Energy consumption in rice-maize cropping systems under conservation tillage	2009	PI	-	Developed, supervised, executed
25	Evaluation of the planter to establish direct seeded rice under minimum tillage practices	2010	PI	-	Developed, supervised, executed
26	Evaluation of the planter to establish pulse and wheat under minimum tillage practices	2010	PI	-	Developed, supervised, executed
27	Evaluation of the planter to establish sprouted direct-seeded rice	2010	PI	-	Developed, supervised, executed
28	Evaluation of the planter to establish unpuddled transplanting of rice in High Barind Tract	2010	PI	-	Developed, supervised, executed
29	Evaluation of Mechanical Transplanter in Unpuddled Transplanting of Wet Season Rice in Sandy Loam Soil	2012	PI		Developed, supervised, executed
30	Design and development of BRRI prilled urea applicator	2013	-	CI	Supervised, executed

Sl. No.	Research program	Initiation	PI	CI	Remarks
31	Development of panicle thresher	2013	PI	_	Developed, supervised, executed
32	Testing of hand reaper for harvesting rice	2014	PI	-	Developed, supervised, executed
33	Improvement of air-blow engelberg huller	2014	-	CI	Developed, supervised, executed
34	Evaluation of fertilizer applicators in rice field	2015	PI	-	Developed, supervised, executed
35	Evaluation of power weeder in rice field	2015	PI	-	Developed, supervised, executed
36	Selective mechanization in rice cultivation	2016	PI	-	Developed, supervised, executed
37	Weed management in mechanically transplanted rice field	2016	PI	-	Developed, supervised, executed
38	Business model development of mechanical rice transplanter	2016	PI	-	Developed, supervised, executed
39	Effect of land size on the operational efficiency of transplanter	2017	PI	-	Developed, supervised, executed
40	Attachment of urea fertilizer applicator in the transplanter	2017	-	CI	Supervised
41	Development of power operated rice transplanter	2018	-	CI	Developed, supervised, executed
42	Development of mini combine harvester	2018	-	CI	Developed, supervised, executed
43	Development of recirculating type dryer	2019	-	CI	Developed, supervised, executed
44	Development of mini combine harvester	2020	PI		Developed, supervised, executed
45	Development of manual transplanter	2020		CI	Developed, supervised, executed
46	Development of seed sower machine	2020	-	CI	Developed, supervised, executed
47	Development of straw rope maker	2020	-	CI	Developed, supervised, executed

Sl. No.	Research program	Initiation	PI	CI	Remarks
48	Development of head feed combine harvester	2021	PI	-	Developed, supervised, executed
49	Development of remote control seed sower machine	2022	PI	-	Developed, supervised, executed
50	Improvement of solar light trap	2022	PI	-	Developed, supervised, executed
51	Development of internet control seed sower machine	2023	PI	-	Developed, supervised, executed
52					Developed, supervised, executed
53	Development of head feed combine harvester	2023	PI	-	Developed, supervised, executed
54	Development of compact rice mill	2023	PI	-	
55	Development of auto seed sower machine	2023	PI	-	Developed, supervised, executed
A total of 55 research program			**34**	**21**	

PI= Principal Investigator, CI=Co-investigator

Project/Dissertation title

- PhD Dissertation Title " Development of Multi-crop Planter for Conservation Agriculture"
- MS Dissertation Title "Development of Power Tiller mounted Boom Sprayer"
- B.Sc. Engineering (Hons.) project title "Tractive Performance of Power tiller"

List of publications

Published full paper as **Principal Author**

i. **AKM Saiful Islam**, Shafier Jahan Khan, Md Golam Kibria Bhuiyan, Fariha Akhter, Arafat Ullah Khan (2025): Design, Fabrication, and Performance Evaluation of BRRI. Compact Rice Mill Journal of Agricultural Machinery and Bioresources Engineering, 9(1):9-25. https://doi.org/10.61361/jambe.v9i1.133.

ii. **AKM Saiful Islam**, Md Ashraful Alam, Md Esme Adom, Arafat Ullah Khan, Md. Monirul Islam and Md Kamruzzaman (2023): Design and fabricate BRRI seed sower machine for mat-type seedling raising. J. Sci. Technol. Environ. Inform. 12(02): 786-799. https://doi.org/10.18801/jstei.120223.79.

iii. **AKM Saiful Islam**, Mohammad Kamruzzaman, Md. Asharful Alam and Md. Esme Adom 2022: Appropriate scale and business viable whole feed combine harvester for sustainable agricultural mechanization in Bangladesh. International Journal of Agriculture, Environment and Bioresearch. 07(02): 98-107. https://doi.org/10.35410/IJAEB.2022.5719.

iv. **AKM Saiful Islam,** Md. Ashraful Alam, Md. Monirul Islam and Md. Esme Adom 2022: Design and development of rice straw rope maker. International Journal of Engineering Research & Technology. 11(4):179-189.

v. **AKM Saiful Islam**, MA Alam, M. Kamruzzaman, MGK Bhuiyan, MM Islam and

Mohammad Rezoan Bin Hafiz Pranto 2021: Business Viability of Small Combine Harvester in Haor Areas. European Journal of Agriculture and Food Sciences. 3(3):47-55.

vi. **AKM Saiful Islam**, 2020: Mechanized Cultivation Increases Labour Efficiency. Bangladesh Rice J. 24 (2):49-66, doi.org/10.3329/brj.v24i2.53448.

vii. **AKM Saiful Islam**, Md. Ashraful Alam, Muhammad Ashik-E-Rabbani, Md. Samiul Bashir, Md. Mizanur Rahman 2020: Techno-Economic Feasibility of Zoomlion Combine Harvester in Haor Areas of Bangladesh. *Agricultural Sciences*, 11:1170-1185. doi: 10.4236/as.2020.1112077.

viii. **AKM Saiful Islam**, MGK Bhuiyan, M Kamruzzaman, MA Alam, MA Rahman 2019: Custom hire service business of rice combine harvester in *haor* basin of Bangladesh. Bangladesh Rice J. 23(2):65-75.

ix. **AKM Saiful Islam**, M A Hossen, M K A Bhuiyan, M M Islam and M A Rahman 2018: Performance of weeder in mechanically transplanted rice cultivation. Bangladesh Rice J. 22(1):25-34.

x. **AKM Saiful Islam** 2018: Status of rice farming mechanization in Bangladesh. The Journal of Bioscience and Agriculture Research, 17(01):1386-1395.

xi. **AKM Saiful Islam**, Md Jahangir Kabir 2017: Rental service market of farm machinery in rice cultivation: an investigation at farm level. Bangladesh Rice J. 21(1):35-45.

xii. **AKM Saiful Islam**, MA Hossen, MKA Bhuiyan, MM Islam, MA Rahman 2017: Effectiveness of weed control methods in mechanically transplanted rice. Bangladesh J. Weed Sci. 6 (1&2): 77-89.

xiii. **AKM Saiful Islam** and MAI Khan 2017: Effect of row spacing of rice transplanter on seedling requirement and grain yield. The Experiment, 44(4): 2562-2573.

xiv. **AKM Saiful Islam**, Md Shahjahan Kabir, Md Ismail Hossain 2017: Present land size with shape and effect on the operational efficiency of rice transplanter. J. Sci. Technol. Environ. Inform. 05(02): 402-412.

xv. **AKMS Islam**, MS Rahman, SR Das, TK Saha, MR Rahman, MT Islam, MA Rabbani 2017: Entrepreneurial opportunity of mechanical rice transplanting service for small holder farmer in Bangladesh. Progressive Agriculture 28 (3): 230-239.

xvi. **AKMS Islam**, MT Islam, Islam M Sh, Rahman AKML, Rahman MA 2017: Performance Evaluation of BRRI Power Weeder for Low Land Rice (*Oryza sativa* L.) Cultivation. The Agriculturists 15(1):40-48.

xvii. **AKMS Islam**, MA Rahman, AKML Rahman, MT Islam, MI Rahman 2016: Techno-economic performance of 4-row self-propelled mechanical rice transplanter at farmers' field in Bangladesh. Progressive Agriculture 27(3):369-382.

xviii. **AKM Saiful Islam**, Md Tariqul Islam, Md Shakilur Rahman, Md Abdur Rahman, Youngjung Kim 2016: Investigation on Selective Mechanization for Wet Season Rice Cultivation in Bangladesh. J. of Biosystems Eng. 41(4):294-303.

xix. **AKM S Islam**, MA Rahman, ABM Z Rahman, M Rahman, YJ Kim 2016: Comparison of Tegra and Conventional Rice Cultivation in Bangladesh. Bangladesh Rice J. 20(1):33-43.

xx. **AKM Saiful Islam**, MA Rahman, AKM Lutfor Rahman, MT Islam and MI Rahman 2015: Field Performance Evaluation of push type BRRI prilled urea applicator in low land rice cultivation. Bangladesh Rice J. 19 (2):68-78.

xxi. **AKM Saiful Islam**, MA Saleque, MM Hossain and AKM Aminul Islam 2015: Effect of Conservation Tillage on Soil Chemical Properties in Rice-Maize Cropping System. The Agriculturists 13(2):62-73.

xxii. **AKM Saiful Islam**, MT Islam, MA Rabbani, MA Rahman and ABM Ziaur Rahman 2015: Commercial mechanical rice transplanting under public private partnership in Bangladesh. J. Biosci. Agric. Res. 06(01):501-511.

xxiii. **AKM S Islam**, MM Hossain, MA Saleque, MA Rahman and AE Rabbani 2014: Input-output relationship in rabi maize (*Zea mays* L.) cultivation under minimum tillage. Journal of IEB/AE, 41(2):55-60.

xxiv. **AKM S Islam**, MM Hossain and MA Saleque 2014: Effect of unpuddled transplanting on crop growth and yield of dry season rice in high barind tract. The Agriculturists 12(2): 91-97.

xxv. **AKM Saiful Islam**, MM Hossain, MA Saleque 2014: Conservation agriculture options for a Rice-Maize cropping systems in Bangladesh. Bangladesh Rice J. 18(1&2): 44-53.

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xvi) **AKM Saiful Islam** and Masuda Farouk Ratna 2003: Rice threshers (Bangla), Published by Gram Bikash Sahayak Sangstha (NGO), Financed by REFPI-BAU/DFID.

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Leaflet **as Co-author**

i) Arafat Ullah Khan, Jannatoon Nime, Most. Sapna Khatun, **AKM Saiful Islam** 2024: BRRI chopper machine (Bangla), Published by Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation Project, Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research Institute, Gazipur, Bangladesh.

ii) Md Monirul Islam, Arafat Ullah Khan, Md Mahir Shahriyar, Md Kamruzzaman Pintu, **AKM Saiful Islam** 2024: BRRI power weeder skid type (Bangla), Published by Strengthening Farm Machinery Research Activity for Mechanized Rice Cultivation Project, Farm Machinery and Postharvest Technology Division, Bangladesh Rice Research Institute, Gazipur, Bangladesh.

iii) Dr.Md.Syedul Islam and **AKM Saiful Islam** 2003: BRRI weeder (Bangla), Published by DEMFRIPT sub-project, Financed by PETRRA-IRRI/DFID.

iv) Dr.Md.Syedul Islam and **AKM Saiful Islam** 2003: BRRI open drum thresher (Bangla), Published by DEMFRIPT sub-project, Financed by PETRRA-IRRI/DFID.

v) Dr.Md.Syedul Islam and **AKM Saiful Islam** 2003: BRRI rice-wheat thresher (Bangla), Published by DEMFRIPT sub-project, Financed by PETRRA-IRRI/DFID.

Poster **as principal author**

i) **Islam AKMS,** Hossain MM, Sarker RI, Saleque MA, Rahman MA, Haque ME, and Bell RW 2011: Energy Utilization in Unpuddled Transplanting of Wet Season Rice. Poster presented In:5th World Congress of Conservation Agriculture incorporating 3rd Farming Systems Design Conference, 26-29 September 2011, Brisbane, Australia.

ii) **Islam AKMS**, Haque ME, Hossain MM, Saleque MA, Bell RW 2011: Evaluation of the Versatile Multi-crop Planter for Establishing Sprouted Direct-Seeded Rice. Poster presented In:5th World Congress of Conservation Agriculture incorporating 3rd Farming Systems Design Conference, 26-29 September 2011, Brisbane, Australia.

iii) **Islam AKMS**, Hossain MM, Saleque MA, Rahman MA, Haque ME, Bell RW, and Karmakar B 2011: Effect of Minimum Tillage and Residue Retention on Maize Productivity. Poster presented In:5th World Congress of Conservation Agriculture incorporating 3rd Farming Systems Design Conference, 26-29 September 2011, Brisbane, Australia.

iv) **A.K.M. Saiful Islam**, Haque ME, Hossain MM, Saleque MA, Bell RW 2010: Water and fuel saving technologies: Unpuddled bed and strip tillage for wet season rice cultivation in Bangladesh, Poster presented in 19th World Congress of Soil Science. Soil Solutions for a Changing World, Brisbane, Australia, 1-6 August 2010. International Union of Soil Science, Wageningen, The Netherlands.

Poster **as Co-author**

v) Dr.Md.Syedul Islam and **AKM Saiful Islam** 2003: Dissemination of BRRI farm machine in north-west region of Bangladesh, Published by DEMFRIPT sub-project, Financed by PETRRA-IRRI/DFID.

vi) Dr.Md.Syedul Islam and **AKM Saiful Islam** 2003: Fine rice processing technology, Published by DEMFRIPT sub-project, Financed by PETRRA-IRRI/DFID.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Bangladesh Society of Agricultural Engineering (BASE)
2. Bangladesh Rice Research Institute Scientist's Association (BRRISA)
3. Institution of Engineers Bangladesh (IEB)

AWARD:

1. Received Award from the Chancellor, Bangladesh Agricultural University for achieving first position in the examination of B.Sc. Ag. Engg. (Hons)
2. Received award from Ministry of Agriculture for achieving third position to successfully execute project among the 80 projects.

FELLOWSHIP: Received National Science and Technology Fellowship from the Ministry of Science and Technology for conducting research on Power tiller tillage in small farm system.

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Signature and date

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