

## MD. ABUL KHAIYER MOLLAH BIO-DATA

1.	Name	:	Md. Abul Khaiyer Mollah	
2.	Father's name	:	Md. Abul Kalam Mollah	
3.	Mother's name	:	Halima Begum	
4.	Husband's name	:	Not applicable	
5.	Gender	:	Male	
6.	Present Address	:	Senior Scientific Officer , Training Department, PTC Wing BJRI, Manik Mia Avenue, Dhaka-1207	
7.	Permanent Address	:	Village: Gallai, Post Office: Gallai, Upazilla: Chandina, District: Comilla-3510	
8.	Date of birth	:	12-08-1981	
9.	Age (as on 29/10/2023)	:	42 years 10 months 17 days	
10.	Educational Qualification	:		
	Degree/Diploma/Certificate	Class/Grade/Division	University/Institute/Board	Year
	SSC	First Division	Comilla Board	1996
	HSC	First Division	Comilla Board	1998
	B.Sc.(Hons) in Physics	Second Class	National University	2001
	M.Sc. in Physics	Second Class	National University	2002

11. Field of Specialization: M.Sc. in Physics (including Solid State Pphysics, Quantum Machanics, Nuclear Physics, Optical Physics, Mathmatical Physics Machinery/Equipment, Maintenance and Quality Control of the Processing Technology) & Subsidiary Subject Chemistry,Biology and Mathmatics.

12. Training:

(a) In Country:

Organization	Year	Duration		Name of Programme
		Months	Days	
BARD, Comilla	2009	04 months	-	Foundation Training Course
RDA, Bogra	2009	-	05 days	Attachment Programme
BCC, Agargaon	2009	-	15 days	Introduction to Office Application
BARC, Farm gate	2011	-	05 days	Technical Report Writing and Editing
GTI, Mymensingh	2011	-	13 days	Training on Research Methodology
BARC, Farm gate	2010	-	02 days	Training Workshop on forest and environment.

UTC Convention Hall, L-5, 8-Panthapath, Dhaka.	2013	-	01 day	Simplify your Testing the-James Heal, Way.
IJSG, Dhaka	2013	-	07days	Design and Product Development of Diversified Jute Products
Bangladesh Jute Research Institute, Dhaka	2017	-	03 days	Training of Trainers for the Dissemination of Industrial Technologies on Jute
Bangladesh Jute Research Institute, Dhaka	2017	-	02 days	Innovation in Public Service
Bangladesh Jute Research Institute, Dhaka	2017	-	03 days	Procurement of goods,works and services
Bangladesh Jute Research Institute, Dhaka	2017	-	03 days	Administrative and Financial Management
Bangladesh Jute Research Institute, Dhaka	2019	-	02days	Modern Office Management
Bangladesh Jute Research Institute, Dhaka	2019	-	01days	Jute Textile Product Research & Development
Bangladesh Jute Research Institute, Dhaka	2019	-	06days	Public Procurement Management
Bangladesh Jute Research Institute, Dhaka	2019	-	02days	Quality Control on Jute Goods
Bangladesh Jute Research Institute, Dhaka	2019	-	03days	Data Analysis by Micro-computer
Bangladesh Jute Research Institute, Dhaka	2019	-	01days	National Intregrety Strategy
Bangladesh Jute Research Institute, Dhaka	2020	-	02days	E-Filling
BJRI,Dhaka	2020	-	01days	Right Information Act
Bangladesh Jute Research Institute, Dhaka	2020	-	02days	Modern Office Management
BARC, Farm gate, Dhaka	2020	-	05 days	Technical Report Writing and Editing
Bangladesh Jute Research Institute, Dhaka	2020	-	02days	Public Procurement Procedures
PKSF, Dhaka	2020	-	05days	Introduction to GCF Modalities and Procedures
Bangladesh Jute Research Institute, Dhaka	2021	-	01days	Annual Performance Agreement

(b).Abroad: Nil

Country	Year	Duration		Name of Programme
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13. Experience:

Position	Period		
	From	To	Total Year/ Months
Scientific Officer (SO)	26-12-2005	24-04-2012	06 years 03 months 28 days
Senior Scientific Officer (SSO),CC	25-04-2012	(08.01.2017)	04 years 7 months 16 days
Senior Scientific Officer (SSO)	09-01-2017	Till to date (29.10.2023)	06 years 9 months 20 days

14. Publication (SO to SSO):

List of publications, photocopies of journal publications, photocopies of first page other publications are to be attached.

(a)	Scientific Journals	No. of Publication
	(I) Full paper	27
	(a) Paper published in the Reputed International Journal	
	Principal author	00
	Co-author	01
	(b)Other International and National Journal	
	Principal author	06
	Co-author	20
	(ii) Short Communication	0
	Principal author	0
	Co-author	0

(b)	Books/Monographs/Bulletins	
	(i)Books Principal author Co-author	0 0 0
	(ii)Monographs Principal author Co-author	0 0 0
	(iii)Bulletins Principal author Co-author	01 0 01
(c)	Seminar/Workshop/Symposium/Proceeding Principal author Co-author	0 0

## **List of Research Programme developed/supervised/executed:**

1. Assessment of the qualities of yarn of different counts to standardize them-**Executed** (TP-7 ATP 2007-2008)
2. Standardization of jute varieties both tossa and white released by BJRI at different time on the basis of objective assessment- **Supervised** (TP-5 ATP 2014-2015)
3. To find out effect of twist on quality of yarn, fabrics and composite materials-**Supervised** (TP-4 ATP- 2013-2014)
4. Studies on fibre strength of jute fibre of different reed length and weight- **Supervised** (TP-8 ATP 2013-2014)
5. To developed a complete chart for the flash/ ignition point of jute and jute products- **Supervised** (TP-9 ATP 2013-2014)
6. Studies on different physical properties of jute to develop a grading album- **Developed** (TP-5 ATP 2013-2014)
7. Improvement of flameproof process for the preparation of flame retardant jute and jute fabrics at the end uses of diversified jute products- **Supervised** (C-15 ATP 2013-2014)
8. Production of union fabrics of fancy weave design Mock leno, Honeycomb and simple broken weft twill using jute yarn as weft and cotton yarns as warp- **Supervised** (MP-36 ATP 2013-2014)
9. Investigation of the physico-chemical properties of jute fibre (0-9897) of optimum growth age to ascertain for spinning with lower amount of JBO treatment- **Supervised** (C-18 ATP 2014-2015)
10. Study on the determination of the suitable brightener for jute fabrics- **Developed** (PP-40 ATP 2013-2014)
11. Modification and fabrication of existing wrap reel- **Supervised** (TP-10 ATP 2011-2012)
12. Comparison between the mechanical properties of jute fibre reinforced polypropylene composite using woven and nonwoven jute fabrics- **Developed** (TP-5 ATP 2014-2015)
13. Study on the physical properties of jute cotton union fabric- **Supervised** (MP-39 ATP 2014-2015)
14. Study on the effect of salt concentration during jute dyeing on reactive dye- **Supervised** (PP-43 ATP-2014-2015)
15. Study on the effect of temperature on the properties of dyed fabric in stenter machine- **Supervised** (PP-44 ATP2014-2015)

16. Comparative study between chemically modified jute fibre and optical brightener treated jute fibre-**Developed** (PP-47 ATP2014-2015)

17. Studies on the physical properties of jute for scientific grading- **Executed** (TP-3 ATP 2005-2006)

18. To develop the economic technique in carpet manufacturing process to minimize the cost of production- **Developed** (TP-5 ATP 2005-2006)

19. Determination of variation of fibre tenacity along the reed length- **Supervised** (TP-8 ATP2005-2006)

20. Determination of fibre fineness of different grades of fibre by Air flow method and Gravimetric method- **Developed** (TP-9 ATP 2005-2006)

## List of Publication of Md. Abul Khaiyer Mollah, SSO

Sl. No.	Publication Type	Publication Description (Published in National Journals)
01.	Full Scientific Paper Principal-author	<b>A.K. Mollah</b> , Md. Assaduzzaman, Md. Abdul Majid Molla, A.S.M Yahiya, and Mohammad Abdullah Kaysar “Physico-Mechanical properties of different grades of jute fibre” (Corchorus capsularies) Int. J. Sustain. Agril. Tech. 5(5): 28-31 (August 2009).
02.	Full Scientific Paper Principal-author	<b>A.K. Mollah</b> , M. M. Alamgir Sayeed, Md. Assaduzzaman, Md. Abdus Salam Khan, and Mohammad Abdullah Kaysar “The Quality of being important of Fineness, Strength, Lustre and Brightness of jute fibre in scientific grading” Int. J. Sustain. Agril. Tech. 5(7): 06-09 (October 2009).
03.	Full Scientific Paper Principal-author	<b>A.K. Mollah</b> , Md. Assaduzzaman, A.S.M Yahiya, Sweety Shahinur and Ayesha khatton “Studies on the Physico-Chemical properties of chemically modified jute fibre” (C. capsularies) Int. J. Sustain. Agril. Tech. 5(5): 28-31 (August 2009).
04.	Full Scientific Paper Principal-author	<b>A.K. Mollah</b> , Md. Abdul Majid Molla, Md. Assaduzzaman, M.A Salam Khan and M.A.M Khan “ Effect of batch composition on jute yarn in relation to its physico-mechanical properties” Bangladesh J. Jute Fib.Res. 2014,31(1-2): (125-131)
05.	Full Scientific Paper Principal-author	A.K. Mollah, M. M. Islam, M. Kamrujjaman, J. B. Molla and M. K. Alam “Performance of Physico-Mechanical Properties of Jute Yarn Counts Collected From Different Jute Mills of Khulna Zone As Affected by Batch Compositions” Int. J. eng. technol. (Online) 7 (5): 12-16, September 2020.
06.	Full Scientific Paper Principal-author	<b>Abul Khaiyer Mollah</b> , M.M. Alamgir Sayeed, M. Mahbubul Islam, Md. Mahmudul Habib and M. Kamrujjaman “Assessment of Physico-Mechanical Quality Parameters of Jute Fibre Grown in Different Location of Bangladesh” Daffodil International University Journal of Science and Technology, Volume 16, Issue 1, January 2021, Issn 18185878 (Print) 2408-8498 (Online).

Sl. No.	Publication Type	Publication Description (Published in National Journals)
01.	Full Scientific Paper Co-author	Mahmuda Begum, Mobarak Hossen, Ayesha Khatton, <b>A.K. Mollah</b> , and M. S. Hasan “Comparative Studies on the properties of okra ( <i>Abelmoschus esculentus</i> L.) Fibre with jute fibre” Bangladesh J. Jute Fib. Res. 2008, 28(1): 1-5
02.	Full Scientific Paper Co-author	Md. Abdul Majid Molla, Md. Shahid ullah, Md. Masroor Anwar, M. M. Alamgir Sayeed, and <b>A.K. Mollah</b> , “A Comparative Study on fibre strength of white jute grown in different areas of Bangladesh” Bangladesh J. Jute Fib. Res. 2008, 28(1): 1-5
03.	Full Scientific Paper Co-author	M. Ali, M. Saheb Ali, <b>A.K. Mollah</b> , M. H. Rashid and G.K.M.N. Haque “Study on yield loss of rice due to insect infestation ‘Int. J. Sustain. Agril. Tech. 4(5): 65-68 (October 2008).
04.	Full Scientific Paper Co-author	M. Hossen, M. Begum, A. Halim, A. Khatton, and <b>A.K.Mollah</b> “Study on the Physico- Mechanical properties of sodium hypo chlorate treated jute fibre” J.Soil.Nature. 2 (2): 09-12(July 2008)
05.	Full Scientific Paper Co-author	Md. Assaduzzaman, Abul Kalam Azad, Nazmina chowdury, and <b>A. K. Mollah</b> “Studies on the effect of metal ion on dyeing of jute fabric with natural vegetable dyes catechu” Int. J. Sustain. Agril. Tech. 5(6): 28-31 (September 2009).
06.	Full Scientific Paper Co-author	Md. Abdul majid molla, Md. Shahid ullah, M.M.A. Sayeed, and <b>A. K. Mollah</b> “A Comparative Study on colour variation of tossa jute fibre along with its growing area” International J. Eng. Tech. 6(4): 619-622 (December 2009).
07.	Full Scientific Paper Co-author	Md. Assaduzzaman, Md.Kamal Uddin, Md. Moslem Uddin, Mojid Molla, and <b>A. K. Mollah</b> “ Study on physico-chemical properties of jute fabric dyeing with natural dye indigo” Int. J. Sustain. Agril. Tech. 5(4): 130-133 (July 2009).
08.	Full Scientific Paper Co-author	Abul Kalam Azad, Md. Assaduzzaman, Abus Salam Khan, A.S.M. Yahiya and <b>A. K. Mollah</b> “Study on the effect of duration on the blended denim fabric” Int. J. Sustain. Agril. Tech. 5(4): 124-129(July 2009).
09.	Full Scientific Paper Co-author	A.S.M. Yahiya, M.M.Islam, A.Miah, <b>A. K. Mollah</b> and Assaduzzaman, “Influence of pluronic F-68 on plant regeneration from the explants of tossa jute ( <i>Corchorus olitorius</i> L.) “Int. J. Sustain. Agril. Tech. 5(5): 18-23(August 2009).
10.	Full Scientific Paper Co-author	Md. Abdul majid molla, Md. Assaduzzaman Md. Shahid ullah, <b>A. K. Mollah</b> M.A.M. Khan “Quality assessment of tossa jute of Bangladesh in relation to fibre fineness” J.Innov. Dev. Strategy 4(1):22-26 (August 2010).
11.	Full Scientific Paper Co-author	M A Taher, A K M M Alam, M Nasimul Gani, N Islam, and <b>A. K. Mollah</b> “Effect of rice straw and chemical fertilizer on the production of jute and quality of fibre “Eco-friendly Agril. Tech. J.2(12):1002- 1005,2009(December).



12.	Full Scientific Paper Co-author	M. Masroor Anwer, <b>A. K. Mollah</b> , Md. Abdullah Kaysar M.A.M. Khan, and Shafiqul Hasan “ X-Ray diffraction Study of raw, mercerized, bleached and impregnated jute fibre” Int. J. Sustain. Agril. Tech. 6(1): 19-23, January 2010
13.	Full Scientific Paper Co-author	M. Masroor Anwer, <b>A. K. Mollah</b> , Q.A. Rahaman, Ayesha Khatton, and M.A.M. Khan, “Study of thermal conductivity of different types of natural fabrics” Int. J. Sustain. Agril. Tech. 6(1): 28-30, January 2010
14.	Full Scientific Paper Co-author	M. Masroor Anwer, M. Shaidullah, <b>A. K. Mollah</b> , Q.A. Rahaman, and Md. Abdullah Kaysar “Studyies on some electrical properties of raw, mercerized bleached jute fibre” Int. J. Sustain. Agril. Tech. 6(1): 06-11, January 2010
15.	Full Scientific Paper Co-author	Md. Abdul majid molla, Md. Shahid ullah, M.M. Alamgir Saeed, <b>A. K. Mollah</b> , and Zakaria Ahmed Khan “Quality assessment of tossa jute fibre grown in different districts of Bangladesh” J.Primeasia Univ. 1(1):53-58, 2011
16.	Full Scientific Paper Co-author	A.S.M. Yahiya, M. G. Mostafa, M.J. Alam, A.S.M. Kamruzzaman, and <b>A. K. Mollah</b> “Seed and seedling quality of onion (allium cepa L.) as affected by types of storage containers” J. Expt. Biosci. 3(2): 19-24, July 2012
17.	Full Scientific Paper Co-author	Ayesha Khatton Mahmuda Begum, Mobarak Hossen, Samina Jafrin, and <b>A.K. Mollah</b> , “Improved of fire-resistance on jute fabric trated with di-ammonium hydrozen phosphate” Int. J. Sustain. Agril. Tech. 8(7): 08-11, July 2012
18.	Full Scientific Paper Co-author	M.A. Alam, <b>A.K. Mollah</b> , Mohammad Hussain, A.K.M Maqsudul Alam and M. S. H. Bhuyan “Effect of chemical on the improvement of jute fibre” Bangladesh J. Jute Fib. Res. 2014,31(1-2): (109-114)
19.	Full Scientific Paper Co-author	M.A.M. Molla, <b>A. K. Mollah</b> , M.A.M. Khan, S. Shahinoor and M.K. Alam “Fibre Fineness of white jute of different districts of Bangladesh: An important physico-mechanical property for fine yarn manufacturing” J.Innov. Dev. Strategy 9(1):9-12 (April 2015)

**List of research article published in International Journals**

<b>Sl. No.</b>	<b>Publication Type</b>	<b>Publication Description (Published in International Journals)</b>
01.	Full Scientific Paper Co-author	Shamina Jafrin, Sweety Shahinoor, <b>A. K. Mollah</b> , Ferdouse Ara Dilruba, Md. Asaduzzaman, and Sushanta Kumar Dhali “Effect of Weak Acid and Weak Alkali on Jute Fibre and Fabrics in Physical Properties” Indian Journal of Natural Fibre Vol.1 No.1, pp. 83-89. July 2014

**List of bulletins published in BJRI**

01.	Bulletins Co-author	M. M. Alamgir Sayeed and <b>A. K. Mollah</b> “Testing and quality control of jute fibres and yarns” Newsletter of BJRI Vol. 36 No.3 (July-September, 2009)
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