

## RESUME OF Dr. MD. MASROOR ANWER

1. Name : **Dr. MD. MASROOR ANWER**
2. Father's name : Late Md. Akil
3. Mother's name : Late Akramun Nessa
4. Husband's name : Not applicable
5. Gender : Male
6. Designation : **Chief Scientific Officer (CSO)**
7. Institution : Bangladesh Jute Research Institute
8. Date of joining in the present position : 18/10/2021
9. Date of first joining in service : 30/06/1996
10. Date of birth : 01/03/1971
11. Educational Qualification :

Degree/Diploma/Certificate	Class/Grade/Division	University/Board	Year
S. S. C.	First division	Dhaka Board	1985
H. S. C.	First division	Dhaka Board	1987
B. Sc. Engineering in Electrical & Electronic	First class	BUET	1993
M. Sc. Engineering in Electrical & Electronic	First class	BUET	2004
Ph. D.	Awarded	BUET	2013

12. Field of Specialization : Plasma polymer and fibre science

### 13. Training

#### (a) In Country

Organization	Year	Duration		Name of programme
		Mos.	Days	
EADS, Dhaka	1999	-	15	Training on Windows 2000, SPSS, MS STAT, trouble-shooting, E-mail and Internet Application.
BARD, Cumilla	2000	3	15	Foundation Training Course
BJRI and French Textile and Clothing Institute (IFTH)	2002	-	07	Jute and Jute Blends with Flax and Wool for its Diversification.
Leopard Computing 2000 Plus Ltd	2002	-	19	Corporate Training on Windows2000, SPSS, IRRISTAT, MS STAT and Internet Application.
International Jute Study Group	2003	-	02	Productivity Improvement in

				the Jute Industry.
Graduate Training Institute(GTI),BAU	2004	-	04	Statistical Analysis using Computer Packages.
Institute of Appropriate Technology (IAT), BUET	2006	-	05	Productivity Improvement in the Engineering Industries.
BARD, Cumilla	2006	-	06	Entrepreneurship development
BARC	2010		5	Technical Report Writing and Editing
BARC	2012		5	Project Development and Management
BARD, Cumilla	2014	-	14	Financial Management Training
BJRI, Dhaka	2018	-	03	Agricultural Project Management
BJRI, Dhaka	2018	-	03	Research Methodology
BJRI, Dhaka	2019	-	01	Sustainable Development Goal
BJRI, Dhaka	2020	-	02	Service Process Simplification
BJRI, Dhaka	2020	-	01	ACR Writing
BJRI, Dhaka	2020	-	01	টেকসই উন্নয়ন অতীষ্ট
BJRI, Dhaka	2020	-	02	Public Procurement Procedures
BJRI, Dhaka	2020	-	01	"তথ্য অধিকার আইন"

(b) Abroad

Country	Year	Duration		Name of programme
		Mos.	Days	
Philippines	2013	-	28	Study tour program for in-country Ph.D. scholars under PIU-BARC, NATP at the university of the Philippines, Los Banos

14. Experience :

Position	Period		Total Year/Month
	From	To	
Scientific Officer	30/06/1996	22/09/2004	08 years 02 months
Senior Scientific Officer	23/09/2004	23/11/2015	11 years 02 months
Principal Scientific Officer	24/11/2015	till date	05 years 03 months (on 28/02/2021)

15. List of publications

(a) Paper Published in the Reputed International Journal:

Sl. No.	Type	Publication Description
1.	Full Scientific Paper Principal author	<b>Md. Masroor Anwer</b> and Md. Mahbulul Hoque, 2017, "Differential Thermal Analysis of Argon and Oxygen Plasma Treated Jute", International Journal of Engineering and Applied Sciences (IJEAS), 4(10): 18-21.

2.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Shuranjan Sarkar et al. 2018, “ <b>Influence of Low Temperature Argon and Oxygen Plasma Treatment on the Band-gap of Jute</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 5(3): 79-82.
3.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , M. Shahidullah et al. 2010, “ <b>Studies on some electrical properties of raw, mercerized and bleached jute fibres</b> ” Int. J. Sustain. Agril. Tech. 6 (1): 06-11.
4.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> and A. H. Bhuiyan, 2012, “ <b>Influence of Low Temperature Plasma Treatment on the surface, Optical and DC Electrical Properties of jute</b> ”, IOSR Journal of Applied Physics (IOSRJAP), 1 (5): 16-22.
5.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> and A. H. Bhuiyan, 2012, “ <b>Alternating current electrical properties of Argon plasma treated jute</b> ”, International Journal of Development and Sustainability, 1 (2): 19-25.
6.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , A.K Mollah et al. 2010, “ <b>X-ray diffraction Study of raw, mercerized, bleached and impregnated jute fibre</b> ” Int. J. Sustain. Agril. Tech. 6 (1): 19-23.
7.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Abdullah Kayser et al. 2018, “ <b>Fourier Transform Infrared Spectroscopic Analyses of Argon and Oxygen Plasma Treated Jute</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 5(7): 5-8.
8.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Abdullah Kayser et al. 2018, “ <b>Scanning Electron Microscopy Analysis of Argon Plasma Treated Jute Fibre</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 5(7): 9-11.
9.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , A.K Mollah et al. 2010, “ <b>Study of thermal conductivity of different types of natural fabrics</b> ” Int. J. Sustain. Agril. Tech. 6 (1): 28-30.
10.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Zobaidul Hossen et al. 2019, “ <b>Characterization of Argon Plasma Treated Jute Fibre by Using Ultra Violet Visible Spectroscopy</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 6(7): 7-10.
11.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Zobaidul Hossen et al. 2019, “ <b>Direct Current Electrical Properties of Plasma Treated Jute</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 6(7): 11-14.
12.	Full Scientific	<b>Md. Masroor Anwer</b> , Q.A. Rahman et al. 2010, “ <b>Measurement of dielectric parameters of jute fibre at 50 Hz frequency</b> ” Int. J. Sustain.

	Paper <b>Principal author</b>	Agril. Tech. 1 (4): 01-04.
13.	Full Scientific Paper <b>Co-author</b>	M.M. Rahman, <b>Md. Masroor Anwer</b> et al. 2002, “ <b>Farmer’s feeling of need and actual practice of water management for jute production in Bangladesh</b> ” Pakistan Journal of Agronomy 1 (4): 131-132.
14.	Full Scientific Paper <b>Co-author</b>	Md. Anisuzzaman Rassel and <b>Md. Masroor Anwer</b> , 2019, “ <b>Studies on Loss-tangent of Argon and Oxygen Plasmas Treated Jute</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 6(8): 1-5.
15.	Full Scientific Paper <b>Co-author</b>	Md. A. Majid Molla, <b>Md. Masroor Anwer</b> et al. 2009, “ <b>The Quantitative Measurement of the Percentage of Whiteness of <i>Corchorus capsularis</i> Jute Variety</b> ” Int. J. Sustain. Agril. Tech. 5 (6): 09-13.
16.	Full Scientific Paper <b>Co-author</b>	Md. Anisuzzaman Rassel and <b>Md. Masroor Anwer</b> , 2019, “ <b>Variation of Electrical Conductivity with Frequency of Argon and Oxygen Plasmas Treated Jute</b> ”, International Journal of Engineering and Applied Sciences (IJEAS), 6(8): 6-10.
17.	Full Scientific Paper <b>Co-author</b>	M.Shahidullah, <b>Md. Masroor Anwer</b> et al. 2008, “ <b>Formulation of print paste using natural and indigenous thickner-maize (<i>Zea mays</i> L.) starch gum</b> ” J. Soil Nature 2 (2): 05-08.
18.	Full Scientific Paper <b>Co-author</b>	Md. A. Majid Molla, <b>Md. Masroor Anwer</b> et al. 2009, “ <b>A precise comparison on luster variation of white jute fibre of Bangladesh</b> ” Int. J. Sustain. Agril. Tech. 5 (5): 01-05.

(b) Other International & National Journal

19.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Osman Ghani Miazi et al. 2007, “ <b>Studies on the breakdown voltage of raw, mercerized and bleached jute fibres</b> ”, Bangladesh J. Jute Fib. Res., 27(1): 23-29.
20.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Md. Abu Hashan Bhuiyan et al. 2006, “ <b>Studies on the dielectric constant of jute fibre by impedance analyzer</b> ”, Bangladesh J. Jute Fib. Res., 26(1-2): 51-57.
21.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> 2006, “ <b>Comparative study on the electrical conductivity of raw, mercerized and bleached jute fibres</b> ”, Bangladesh J. Jute Fib. Res., 26(1-2): 57-64.
22.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , Latifa Quadir et al. 2007, “ <b>Studies on the optical properties of raw, mercerized and bleached jute fibre by spectrophotometer</b> ”, Bangladesh J. Jute Fib. Res., 27(1): 15-22.

23.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , A. H. Bhuiyan, 2007, “Influence of Low Temperature Argon and Oxygen Plasma Treatment on Moisture Content of Jute”, Daffodil int. university of sci. and technol., 13(1): 43-46.
24.	Full Scientific Paper <b>Principal author</b>	<b>Md. Masroor Anwer</b> , 2007, “ <b>Study of Dielectric Constant of Raw and Low Temperature Plasmas Treated Jute</b> ”, J. Bangladesh Electron.17 (1-2): 09-14.
25.	Full Scientific Paper <b>Co-author</b>	Md. Shahidullah, <b>Md. Masroor Anwer</b> et al., 2007, “ <b>Effect of washing on dyed jute carpet</b> ”, Bangladesh J. Jute Fib. Res., 27(1): 9-14.
26.	Full Scientific Paper <b>Co-author</b>	Md. Abdul. Majid Molla, <b>Md. Masroor Anwer</b> et al., 2008, “ <b>A comparative study on fibre strength of white jute grown in different areas of Bangladesh</b> ”, Bangladesh J. Jute Fib. Res., 28(1): 57-64.
27.	Full Scientific Paper <b>Co-author</b>	A.K.M Mahabubuzzaman, <b>Md. Masroor Anwer</b> et al., 2007, “ <b>A comparative study on the quality of blended jute yarn-conventional blending method vs. blending with hopper feeder and teaser card with staple form jute fibre</b> ”, Bangladesh J. Jute Fib. Res., 27(1): 77-82.
28.	Full Scientific Paper <b>Co-author</b>	S.M. Moniruzzaman, <b>Md. Masroor Anwer</b> et al., 2007, “ <b>Input use and relationship between input and output resources for jute production in selected areas of Bangladesh</b> ”, Bangladesh J. Jute Fib. Res., 27(2): 75-84.
29.	Full Scientific Paper <b>Co-author</b>	Abdul Hannan, <b>Md. Masroor Anwer</b> et al., 2007, “ <b>Comparative studies on batch composition in relation to spinning quality</b> ”, Bangladesh J. Jute Fib. Res., 27(1): 45-52.
30.	Full Scientific Paper <b>Co-author</b>	Md. Mohiuddin Mallick, <b>Md. Masroor Anwer</b> et al., 2004-2005, “ <b>Wettability measurement of different kinds of fabrics</b> ”, Bangladesh J. Jute Fib. Res., 25(1-4): 8-13.
31.	Full Scientific Paper <b>Co-author</b>	Md. Abdul. Majid Molla, <b>Md. Masroor Anwer</b> et al., 2009, “ <b>studies on physical properties of jute fibre for scientific grading (part-1)</b> ”, Bangladesh J. Jute Fib. Res., 29(1-2): 31-37.
32.	Full Scientific Paper <b>Co-author</b>	Md. Osman Ghani Miazi, <b>Md. Masroor Anwer</b> et al., 2011, “ <b>Introduction of intersecting gilling machine in jute processing for making jute and blending yarn</b> ” Daffodil int. university of sci. and technol., 6(2): 63-66.

(c) Books/Monographs/Bulletins

1.	Bulletins <b>Principal author</b>	“Jute: The Golden Fibre of Bangladesh” (Daily News Paper: “The Asian Age”)
2.	Bulletins <b>Principal author</b>	“Jute & Jute Geotextile” (Daily News Paper: “The Asian Age”)
3.	Bulletins <b>Principal author</b>	“Different Treatment Processes of Jute” (Daily News Paper: “The Asian Age”)

4.	Bulletins <b>Principal author</b>	“Different Uses of Jute” (Daily News Paper: “The Asian Age”)
5.	Bulletins <b>Principal author</b>	“Jute and Jute Composite” (Daily News Paper: “The Asian Age”)
6.	Bulletins <b>Principal author</b>	“Skilled Manpower Required for Uplift Jute Sector” (Daily News Paper: “The Asian Age”)
7.	Bulletins <b>Principal author I</b>	“Golden Fibre: Golden Dream” (Daily News Paper: “The Asian Age”)
8.	Bulletins <b>Principal author</b>	“Treatment Techniques of Natural Fibres”(News letter of BJRI: Jute And Jute Fabrics Bangladesh)
9.	Monographs <b>Co-author</b>	“ <b>Jute Blanket</b> ”
10.	Monographs <b>Co-author</b>	“ <b>Novotex fabrics</b> ”
11.	Monographs <b>Co-author</b>	“ <b>Wool substitute soft jute yarn</b> ”

(d) Seminar/Workshop/Symposium/Proceedings

1.	Seminar-I	<b>Md. Masroor Anwer</b> and M. E. Basher, “ <b>Study of the structural property of raw and chemically treated jute fibre</b> ”, international conference on physics for development, 10-11 February, 2011, page: 22.
2.	Seminar-II	<b>Md. Masroor Anwer</b> and Md. Abu Hashan Bhuiyan, “ <b>AC electrical properties of raw and treated jute fibres</b> ”, international conference on magnetism and advanced materials, 3-7 March, 2010, page: 79.
3.	Seminar-III	<b>Md. Masroor Anwer</b> and Md. Abu Hashan Bhuiyan, “ <b>Optical and surface properties of plasma treated jute fibre</b> ”, international conference on physics of today, 15-16 March, 2012, page: 52.
4.	Seminar-IV	<b>Md. Masroor Anwer</b> and Md. Karim et al., “ <b>A Study on the electrical property of jute fibre</b> ”, international physics conference, 15-17 February, 2009, page: 32.
5.	Seminar-V	<b>Md. Masroor Anwer</b> and Md. Abu Hashan Bhuiyan et al., “ <b>FTIR Spectra Analysis of plasma treated jute</b> ”, international conference on physics, 05-07 January, 2017, page: 47.
6.	Seminar- VI	<b>Md. Masroor Anwer</b> , “ <b>Thermogravimetric Analysis of Argon and Oxygen Plasma Treated Jute</b> ”, international conference on physics, 08-10 February, 2018, page: 126.
7.	Seminar-VII	<b>Md. Masroor Anwer</b> , “ <b>Jute: the golden fibre of Bangladesh</b> ”, international physics conference, 11-13 January, 2003, page: 62.
8.	Seminar- VIII	<b>Md. Masroor Anwer</b> and Md Ahmed Ali, “ <b>A Study on the effect of plasma treatment of jute fibre</b> ”, international physics conference, 3-5 June, 2008, page: 37.
9.	Seminar-IX	A. K. M. Mahabubuzzaman, <b>Md. Masroor Anwer</b> et al., “ <b>Harmful azo dyes and its impact on Bangladeshi textile sectors</b> ”, international conference on physics of today, 15-16 March, 2012, page: 52.

10.	Seminar-X	A. K. M. Mahabubuzzaman, <b>Md. Masroor Anwer</b> et al., “ <b>Study on the effect of processing parameters of the finisher card machine on the physical properties of blended jute yarn</b> ”, international conference on physics for sustainable development in the 21 <sup>st</sup> century, 15-17 May, 2009, page: 25.
11.	Seminar- XI	N. Chowdhury and <b>Md. Masroor Anwer</b> et al., “ <b>Commercial Application of Dyeing and Finishing Method for Jute, Jute-cotton Fabrics with Natural Dyes</b> ”, international conference on physics, 05-07 January, 2017, page: 48.
12.	Proceedings	<b>Md. Masroor Anwer</b> , Md. Abu Hashan Bhuiyan et al., 2010, “ <b>AC electrical properties of raw and treated jute fibres</b> ”, international conference on magnetism and advanced materials (ICMAM), page: 211.

(e) Technology developed

Sl. No.	Name of Technology Developed	Remarks
1.	Development of existing Abrasion tester	I worked as a principal scientist.
2.	Development of existing Thermal Conductivity measuring equipment	I worked as a principal scientist.
3.	Development of existing Wettability tester	I worked as a co-scientist.
4.	Development of existing Static Electric Charge measuring equipment	I worked as a co-scientist.

(f) Research Programme developed

Sl. No.	Name of Research Program(s)/ Project(s)	Implementation Status	Remarks
1.	Development and modification of Existing Abrasion tester (TP-11, 1998-2009).	Work completed and one paper has already been published.	I worked as a principal scientist in this program.
2.	Modification and fabrication of thermal conductivity measuring equipment (TP-11, 2008-2009).	Work completed and one paper has already been published.	I worked as a principal scientist in this program.
3.	Development and modification of wettability tester (TP-11, 2008-2009).	Work completed and one paper has already been published.	I worked as an associate scientist in this program.
4.	Studies on the electrical, thermal and optical properties of non-thermal plasma treated jute.	Work completed and one paper has already been published	I worked as a principal scientist in this program.
5.	Development and modification of existing	Work completed	I worked as an associate scientist in this program.

	Twist tester equipment.		
6.	Standardization of Sonic fineness tester for the determination of fineness of jute fibre.	Work completed	I worked as an associate scientist in this program.
7.	Improvement of dielectric constant of jute fibre through chemical treatment.	Work completed and one paper has already been published	I worked as a principal scientist in this program.

16. Research achievement (as SO to PSO): Related documents are attached herewith

- (i) No. of technology developed: 03 (Three)
- (ii) No. of research programme
  - (a) Developed: 07 (Seven)
  - (b) Executed: 02 (Two)

#### Research Programme Executed

Sl. No	Name of Research Programme(s) Developed.	Remarks
1.	Studies on the electrical properties of low temperature plasma treatment of jute.	On going. The report was submitted in the subsequent year.
2.	Improvement of dielectric constant of jute fibre through chemical treatment	On going. The report was submitted in the subsequent year.

17. Outstanding achievement (SO to PSO): Related documents are attached herewith

- (a)
  - (i) Award received for B.Sc Scholarship from BUET.
  - (ii) Award received for M.Sc Scholarship from “strengthen project” of BJRI.
  - (iii) Award received for Ph.D. Scholarship from “NATP, Phase-1 project”, BARC.

(b)

External Examiner

Sl.No.	Subject	Year	University
1.	Material Science	2013	Sonargaon University, Dhaka
2.	Insulating Properties of Materials	2014	Sonargaon University, Dhaka



(c)

Supervision of M.S Student

Name and Department	Field	University
Md. Arif Hossain, EEE	Polymer	Sonargaon University, Dhaka

(d) Membership of Professional Societies

- (i) Life Member of Bangladesh Physical Society
- (ii) Life Member of Bangladesh Academy of Sciences
- (iii) Fellow of the Institution of Engineers, Bangladesh

Dr. Md. Masroor Anwer

Chief Scientific Officer

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