

Personal Data sheet (PDS)



1.	Name	:	Dr. Nazmina Chowdhury
2.	Father's name	:	Late J.K. Motaharul Islam Chowdhury
3.	Mother's name	:	Fardous Ara Begum
4.	Husband 's name	:	Md. Zakaria
5.	Gender	:	Female
6.	Present Address	:	PSO , Pilot Plant and Processing Division, BJRI, Manik Mia Avenue, Dhaka-1207.
7.	Permanent Address	:	Vill: Baspadua, Post. Pursuram, P.S. Pursuram, Dist- Feni.
8.	Date of Birth	:	01- 02-1969
9.	Educational Qualification	:	

Degree/Diploma/Certificate	Class/Grade/Division	University/Board	Year
S.S.C.	2nd	Dhaka	1983
H.S.C.	1st	Dhaka	1986
B.Sc. Engineering (Textile)	2nd	Dhaka	1991
Ph.D.	Degree Awarded	Jahangir Nagar	2012

Title of Ph.D.Thesis : Study of the Physical Properties of Diversified Jute Fabrics of Blended Yarns with Different Structures and Designs.

10.	Field of Specialization	Textile Engineering and Technology (Spinning, Weaving, Wet Processing and Textile machine maintenance).
-----	-------------------------	---

11. Training:

(a) In Country:

Organization	Year	Duration		Name of Programme
		Months.	Days	
Hoechst Bangladesh Limited	1993	10 th November to 30 th December	51	Pretreatment dyeing, printing & finishing
CIBA-GEIGY (Bangladesh) Limited	1994	04 th September to 31 th October	58	Pretreatment, dyeing & printing of CO.PES & S fabrics
Ministry of women and children affairs	1996	01 th January to 30 th April	120	DOS, WordPerfect, Lotus 1-2-3 & dBase III+
Dhaka Japanese Language Institute	1998	April 1997 to March 1998	365	Japanese language course
GTI	1999	25 th to 30 th September	06	Spreadsheet Analysis
GTI	1999	23 rd October to 4 th November	12	Data Management
BARD	2001	12 th March to 25 th June	120	Foundation Training Course
Leopard Computing 2000 Plus Ltd.	2001-02	24 th December 2001 to 13 th January 2002	20	Corporate Training on Windows 2000, MS Office, Spss IRRI STAT & Internet Application
BARC	2011	9 th January to 13 th January	4	Project Development and Management
NITUB	2013	29 th June to 4 th July	06	High Performance Liquid Chromatography
BARD	2013	9 th to 22 th March	14	Administrative and Financial Management
Bangladesh public administration training centre	2013	18 th August to 01 th September		Training of Trainers (ToT)
GTI	2014	18 th to 30 th October	13	Research Methodology
National Agriculture Training Academy	2017	05 th to 09 th March	05	Training of Trainers (ToT)
Bangladesh Institute of Management	2018	01 st to 10 th January	10	Financial Management
BJRI	2018	05 th to 07 th June	03	Agricultural Project Management
OWSD-BD	2018	10 th November	01	Challenging Research by Women in STEM
BJRI	2018	24 th to 25 th November	02	Project Appraisal Study
BJRI	2019	27 th March	01	Sustainable Development Goal

PMU, (NATP-2)	2019	15 th to 20 th June	06	Financial and Procurement Management
BJRI	2019	13 th November	01	e-Filing
BJRI	2020	07 th to 08 th March	02	Service Process Simplification
BJRI	2020	31 st October to 01 st November	02	Public Procurement Procedure (Goods, Works & Services)
BJRI	2020	15 th September	01	(এসিআর) লিখন ও নিয়মাবলী
BJRI	2020	03 rd November	01	টেকসই উন্নয়ন অভীষ্ট (এসডিজি)
BJRI	2023	26 th September	01	সেবা প্রদান প্রতিশ্রুতি

(b) Abroad:

Country	Year	Duration		Name of programme
		Months.	Days.	
INDIA	2013	-	14	Study tour- Wool Research Association (WRA), Thane, Maharashtra, Bombay, Textile Research Association (BTRA), Mumbai, Maharashtra, India Institute of Technology (ITT), New Delhi, Indian Jute Industries Research Association (IJIRA), Kolkata and Institute of Jute Technology (IJT), University of Calcutta.

12. Experience:

Position	Period		
	From	To	Total Yr/Mon
SO (Spinning Department)	30/06/1996	22/09/2004	08/03
SSO (Weaving Department)	23/09/2004	17/12/2008	04/03
PSO (In Charge, Wet Processing Department)	18/12/2008	21/06/2009	00/06
SSO (Weaving Department)	22/06/2009	20/12/2009	00/06
PSO (Current Charge, Wet Processing Department)	21/12/2009	07-07-2014	04/10
PSO (Wet Processing Department)	23-11-2015	continuing	-
CSO (RW)	07-07-2014	Till 04-12-2022	08/04

Other experiences:

- a. Year of service at H.Q. (as 19-10-2023): 27 years and 03 months 19 days.
 - b. Experienced on blending of natural and synthetic fibre and has been worked on blending project.
 - c. Experienced in project implementation, worked as a co-investigator of BARC supported World Bank financed contact research project “Study of compatibility of jute in blending with other textile fibres to produce suitable diversified product”.
 - d. Delivered lectures on “Loom based Training” under Training module of JDPC participant at BJRI on 25 May 2004.
 - e. Worked as a visiting lecturer of spinning, weaving and fabric structure and analysis in ITECH (Institute of Textile Engineering and Clothing).
 - f. Worked as a lecturer for one year since 13/5/1995 to 29/6/1996 in Institute of Textile Engineering and Technology.
 - g. Participation of the seminar on “Geotextiles, technical textiles and the new biotechnologies used in textile industry” organized by Centre for Scientific & Technological Information (CESTI), Alliance Francaise de Dhaka. on 12 October 1999.
 - h. Participation of the international workshop on “Processing and Performance of Low Cost Polymer Composites” organized by BUET, Department of Materials and Metallurgical Engineering (MME) in collaboration with Composite Materials Group, Dept. of MME, Belgium on 22 February 2010.
 - i. Delivered lectures on “Diversification of Jute Products” under Training module of IJSC participant at BJRI on 24 August 2010.
 - j. Participation of the seminar on “Status and Prospects of Jute Production in India” organized by SAARC Agriculture Centre (SAC) in collaboration with BJRI on 05 October 2010.
 - k. Have practical experience on dyestuffs and chemicals (BASF, HOECEST, SANDOZ and CIBA GEIGY) for dyeing and printing of jute and jute blended products.
- l. Key note paper presentation in seminar/symposium/workshop.
 - i) Presented paper on the review of the book “Amra ki jabona tader kase jara shudu banglay katha bale” organized by BARD Comilla on 23rd April, 2001.
 - ii) Paper presentation for the workshop on “Akhane Shomoy Path Shilper Unnoyan” organized by Progoti Nari Udogta from 7th June to 14th June, 2009.
 - iii) Presented the key note of the seminar entitled “Importance of jute fibre” organized by Newzeland Dairy on 18th August, 2009.

Membership of professional societies:

- a. Institute of Textile Engineers and Technologists (ITET), Bangladesh.
- b. Bangladesh Association for Scientist and Scientific Professions.
- c. Mirpur Women’s Development Authority.

d. OASKA.

e. Nadi Bachao, Savar Bachao.

f. Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB)

13. Publications (SO to CSO-RW):

List of all Publications, photocopies of journal publications, photocopies of first page of other publications are attached.

(a)	Scientific journals	No. of publications
	(i) Full paper	30
	(a) Paper published in the Reputed International Journal	23
	Principle author	07
	Co-author	11
	(b) Other International & National Journal	07
	Principle Author	02
	Co-author	05
	(ii) Short Communication	02
	Principle author	01
	Co-author	01
(b)	Books/Monographs/Bulletins	
	(i) Books	01
	Principle author	01
	Co-author	
	(ii) Monographs	02
	Principle author	02
	Co-author	

14. Outstanding achievements

A. Awards: 03 (copy enclosed)

- Awards of Ph.D. Degree
- Awards of Ministry of Women and Children Affairs.
- Awards of ANANNA Women Development Organization.
- পাট ও টেক্সটাইল শিল্পে বিশেষ অবদানের জন্য হিউম্যান রাইটস্ শাইনিং পার্সোনালিটি এ্যাওয়ার্ড-২০১৭ প্রদান – স্বাধীনতা সংসদ

B. Patents: 02 (copy enclosed)

- A process for the production of special type of blended curtain from Jute Cotton blended fibres with special design and motif.
- A process for the production of special type of blended denim from Jute Cotton blended fibres.

C. Thesis Evaluator/

- working as a joint-supervisor for the degree of Master of Science in Textile Engineering Thesis of Daffodil International University, Bangladesh.
- Working as a joint-supervisor for the supervision of Ph.D. thesis of a student in Jahangir nagar University, Savar, Dhaka.

D. Book Published (01)

Basic Concept of Jute & Cotton Processing

E. EMPLOYMENT/ WORK EXPERIENCE

June 1996
-
September 2004 **Scientific Officer**
Mechanical Processing Division,
Bangladesh Jute Research Institute

- Responsibilities:**
- Research layout on the basis of experimental design, proper monitoring of research experiments for machine operation, setup of experiments labour management and distribution, intercultural operation of experimental production and data collection from the output of different aspects of fibre quality.
 - Research related production administration and management.

September 2004
-
December 2009 **Senior Scientific Officer**
Mechanical Processing Division,
Bangladesh Jute Research Institute

- Responsibilities:**
- Planning, preparation and execution of research programme on jute and allied fibre related to improve technical practices.
 - Actively involved in jute technological research on Production and quality aspects of jute for the period of Agricultural Support Service Project (ASSP) sponsored by Ministry of Agriculture, Bangladesh, funded by DFID.
 - Actively involved in writing of international literature review on jute and allied fibre research.

December 2009
-
July 2014 **Principal Scientific Officer**
Pilot Plant and Processing Division,
Bangladesh Jute Research Institute

- Responsibilities:**
- Prepare the revised and proposed annual jute technical research programme for the department.
 - Prepare yearly research reports of different jute research experiments.
 - Prepare experimental budget.
 - Deal with other related field and employees for research matters.
 - Manage and monitor departmental scientists' research work.
 - Communicate with various Government and Non-Government organizations in relation to jute research and

development activities.

- Maintain a laboratory for research on jute and its' product production, processing and quality assessment and maintenance.
- Arrange and give training to the field level jute research related officers, NGO peoples and small entrepreneurs of different locations.
- Participate in Higher Management decision making for research and administration in different issues of the department as and when required.

July 2014 -2 December 2022 Chief Scientific Officer (R.W.) Pilot Plant and Processing Division, Bangladesh Jute Research Institute

- Responsibilities:**
- Coordinating four departmental (Wet Processing, Yarn & Fabric Production, Jute Waste Processing and Chemical Processing) research activities and assisting in the actual implementation of the results obtained.
 - Provide overall support to the Director (Technical) through research planning, review and evaluation.
 - Study the production of yarn, woven and knitted fabrics as per the demand of the current modern world for use in technical textiles from jute through technology exchange and exchange of views with government and private organizations.

List of Publications

Total Number of Publications: 23 (International) + 07 (National) = 30

A) Total International Scientific Journal (Full Paper) as Principal Author = 11

1. "Study on Polyester Blended Jute Fabric and Their Properties" International Journal of Sustainable Agricultural Technology Vol.4, Issue 3, June 2008, P 48-51.
2. "Determination of Optimum Twist of the Jute Blended Yarn" International Journal of Sustainable Agricultural Technology Vol.4, Issue 4, August 2008, P 31-34.
3. "Study of the Development of Novotex Fabrics with their Properties" International Journal of Sustainable Agricultural Technology Vol.4, Issue 6, December 2008, P 52-54.
4. "Comparative Study of Physical Properties of Jute and Jute Blended Blankets" International Journal of Sustainable Agricultural Technology Vol.4, Issue 6, December 2008, P 27-31.
5. "Chemical Effect of Physico-Mechanical Properties of Jute and Jute-Synthetic Blended (80/20) Yarn" Journal of Soil and Nature Vol.3, Issue 1, March 2009, P 1-3.

6. "Study of Caustic Soda Application on Diversified Fabric for Furnishing & Apparels Fabric" *Journal of Innovation and Development Strategy* Vol.3, Issue 4, August 2009, P 17-18.
7. "Study of Loom Speed Effect on the Productivity of Jute Weaving" *Eco-Friendly Agriculture Journal, An International Journal of Agriculture and Environmental Science* Vol.2, Issue 9, September 2009, P 817-819.
8. "Fastness Improvement of Jute Blended Diversified Dyed Fabric with Direct Dye" *International Journal of Tomorrow Science* Vol.4, Issue 5, September 2011, P 27-30.
09. "Study on Jute and Man-made Fibre Blends to Produce Jute Diversified Fabrics" *International Journal of Tomorrow Science* Vol.2, Issue 5, April 2007, P 19-23.
10. "Development & Characterization of Knit Fabric from Jute Fibre" *Saudi Journal of Engineering and Technology* Vol 5, Issue 10, October 2020, P 392-396
11. "Study on continuous dyeing of Jute-Cotton Union Fabric with Direct Dye" *Saudi Journal of Engineering and Technology*, Vol 6, Issue 6, June 2021.

B) Total International Scientific Journal (Full Paper) as Co -Author = 11

1. "Women's Participation in Income Generation through Jute Handicrafts Production in Selected area of Bangladesh" *Online Journal of Biological Sciences*, 2(5); P 355-357, 2002.
2. "Study of the Effect of Speed Variation at Breaker Card Cylinder on Fibre Length and Yarn Quality" *Asian Journal of Plant Sciences*, Vol.1, Issue 6, P 648-649, 2002.
3. "Studies on the Development of Jute Bags in the Cottage Industry", *Southeast University Journal of Science & Engineering* 2008, Vol.1, No 1, P 83-88.
4. "Study on the Determination of Suitable Count of a Blended Yarn with the Maximum Utilization of Jute in the Blend" *International Journal of Biology and Biotechnology* Vol.6, Issue 3, 2009, P 149-151.
5. "Studies on the Physico-Mechanical Properties of Okra (*Abelmoschus esculentus*) Fibre" *International Journal of Sustainable Agricultural Technology* Vol.5, Issue 5, P 122-124, August 2009.
6. "Studies on the Effect of Metal ion on Dyeing of Jute Fabric with Natural Vegetable Dyes Catechu" *International Journal of Sustainable Agricultural Technology* Vol.5, Issue 6, P 28-31, September 2009.
7. "Effect of Spindle Speed for Making Fine Jute Yarn through Modified Ring Spinning Machine". *Southeast University Journal of Science and Engineering* Vol.3, Issue 3, July 2009, P 2328.
8. "Study on Hydrophobic Property of Handmade Jute Paper Treated by Wax" *Journal of Innovation & Development Strategy* Vol.4, Issue 1, August 2010, P 1-4.
9. "Effect of M:L ratio on dyeing of jute fabrics using REMAZOL RR & DRIMAREN HF" *Daffodil International University Journal of Science & Technology, Bangladesh*. Vol 8, Issue 2, July 2013, P 39-42.
10. "Effect of hydrogen peroxide concentration on jute fabric" *Daffodil International University Journal of Science & Technology, Bangladesh*. Vol 9, Issue 1, January 2014, P 39-42

11. "Effect of optical brightening agent on different types of fabrics" Daffodil International University Journal of Science & Technology, Bangladesh Vol 9, Issue 1, January 2014, P 37-41.
12. "Effect of weight loss percentage and pilling, after treating with Enzyme by changing P^H, Time, Temperature on single jersey knitted fabric" Volume 10, Issue 1&2, July 2015, Daffodil International University Journal of Science and Technology, Bangladesh, P 27-29.
13. "Effect of salt concentration on rubbing and wash fastness of dyed woven and knitted fabrics" Volume 11, issue 1, January 2016, Daffodil International University Journal of Science and Technology, Bangladesh. P 19-22.

C) Total National Scientific Journal (Full Paper) as Principal Author = 02

1. "Commercial and Technical Feasibility Assessment of Fine Jute Yarns Produced from Spinguard Spinning Frame" Bangladesh Journal of Jute and Fibre Research 2008, 28(1), P 13-18.
2. "Comparative Study of Different Feeding Effect in Breaker Card on the Quality of Jute Yarn" Bangladesh Journal of Jute and Fibre Research 2008, 28(2), P 05-07.

D) Total National Scientific Journal (Full Paper) as Co -Author = 05

1. "Studies on the Physico-Mechanical Properties of Different Types of Novotex, Blankets" Bangladesh Journal of Jute and Fibre Research 2007, 27 (1), P 53-62
- 2.. "Studies on the Development of the Properties of Chemically Modified Jute Blended Knitted Sweater of Different Structures" Bangladesh Journal of Jute and Fibre Research 2008, 28(1), P 01-05.
3. "The Effect of Sliver Preparation on Rotor Spun Yarn Properties" Bangladesh Journal of Jute and Fibre Research 2008, 28(1), P 19-22.
4. "Productivity Improvement of a Spinning Mill" Bangladesh Journal of Jute and Fibre Research 2008, 28(2), P 17-24.
5. "Comparative Study on Batch Composition in Relation to Spinning Quality" Bangladesh Jute Research Institute, Pub/1476 date: 10-10-2002.

Popular Article

1. "Jute Processing and Environmental Issues" Dhaka Post, 2004.
2. "Bazar Unnayane Pater Kaporer Bohumukhi Designer Guratta" Udoyan, 2005.
3. "Improvement of Blended Jute Yarn with Other Natural & Synthetic Fibres through Modern Repair Loom for Making Diversified Fabric" Dighanto Mirpur Woman Development Organization, January 2008.
4. "Jute and its Diversification" Dighanto Mirpur Woman Development Organization, January 2009.
5. "Jute Blends and its Products" Dighanto Mirpur Woman Development Organization, September 2009.

6. "Jute and its Diversified Uses" The Guardian, April 2010.
7. "Diversified Product from Jute and other Textile Fibre and it's Economic and Market Feasibility" Dighanto Mirpur Woman Development Organization, November 2011.
8. "Study on Jute and Acrylic blended Wear Is Comparatively Better than 100% Jute Wear", University of South Asia Journal, Volume 5, Issue 1, December 2009.

Research Programme Developed: 24

Sl. No.	<u>Research Program(s) / Project(s)</u>	Implementation Status	Completion Year
1.	Comparative study of different feeding effect in B/C on the quality of the jute yarns.	Completed	2000
2.	Commercial feasibility of fine jute yarns from the Spin Guard spin frame.	Completed	2000
3	Study on structural compatibility of jute and man-made fibre used in blend diversified jute fabric.	Completed	2001
4	Optimize the insertion of twists for low count normal jute yarns.	Completed	2002
5.	Optimize the insertion of twist for low count blended jute yarns.	Completed	2002
6.	Optimize the insertion of twist for Gradella Spin Guard spinning frame.	Completed	2002
7.	Study on the physical properties of all jute, ply-blended union fabric.	Completed	2005
8.	Study on physico-mechanical properties on all jute blended jute blanket.	Completed	2007
9.	Study on Jute and Man-made fibre blends to produce jute diversified fabrics	Completed	2007
10.	Study on polyester blended jute fabric & their properties.	Completed	2008
11	Study on caustic soda application of diversified jute fabric fabric.	Completed	2008
12	Effect of fabric construction on the properties of jute fabrics.	Completed	2008
13	Commercial and Technical feasibility assessment of Fine Jute Yarns Produced from Spinguard Spinning Frame	Completed	2008
14	Comparative Study of Different Feeding Effect in Breaker Card on the Quality of Jute Yarn	Completed	2008
15	Determination of Optimum twist of the jute blended yarn	Completed	2008
16	Study of the Development of Novotex Fabrics with	Completed	2008

	their Properties		
17	Study of Loom Speed Effect on the Productivity of Jute Weaving	Completed	2009
18	A process for the production of special type of blended denim from Jute Cotton blended fibres.	Completed	2011
19	Studies on the fastness property of different dyestuffs for the improvement of fastness properties of union fabrics.	Completed	2011
20	A process for the production of special type of blended curtain from Jute Cotton blended fibres with special design and motif.	Completed	2011
21	Study of the Physical Properties of Diversified Jute Fabrics of Blended Yarns with Different Structures & Designs.	Completed	2012
22	Study on the control of liquor ratio in jute dyed fabric for cost minimization	Completed	2014
23	Study on the pre-treatment process optimization of jute fabric for green environment	Completed	2017
24	Process optimization for comfort properties assessment on jute single jersey and rib knitted fabrics	Completed	2019
25.	Cost minimization and process optimization for comfort properties assessment on single jersey and rib knitted fabrics.	Completed	2022

Supervised: 35

Sl. No.	<u>Research Program(s) / Project(s)</u>	Implementation Status	Commencing Year
1.	Blending of jute fibre with other textile fibres, both natural and manmade fibre in jute processing system.	Completed	1995
2.	Development of new jute products to improve the market potentiality.	Completed	2005
3	Production of union fabrics of different designs using blended yarns of jute as weft and cotton yarn as warp.	Completed	2006
4.	Study on Novetex and Novocel union fabrics with fine count (3.4 lbs/spy) jute and cotton (20 /2) ply blended yarn placed in weft insertion.	Completed	2006
5.	Comparison of fabric properties such as drape, tensile strength, bursting strength containing low	Completed	2006

	twist and high twist yarn.		
6.	Production and development of new jute products for textiles uses.	Completed	2007
7.	Effect of twist of yarn on fabric properties such as tensile strength, bursting strength, drape etc.	Completed	2008
8.	Study on the fastness properties of different dyestuffs for the improvement of fastness properties of union fabric.	Completed	2008
9.	Study on intrinsic and extrinsic properties, micro and macro properties of jute and jute products and their modification with physical, chemical, bio-technical and other means.	Completed	2009
10.	Production and development of Novocel yarn for blanket, knitted products.	Completed	2009
11.	Determination of the actual percentage of jute and cotton in the blended yarn	Completed	2009
12.	Production of outer wears with jute woollenised yarn and study of its' market feasibility.	Completed	2009
13.	Standardization of jute dyeing method for producing cost effective diversified jute products.	Completed	2009
14.	Study on the control of liquor ratio in jute dyed fabric for cost minimization.	Completed	2011
15.	Study on the pre-treatment process optimization of jute fabric for green environment	Completed	2014
16.	Production and development of new jute products for textile uses	Completed	
17.	Study on the effect of salt concentration during jute dyeing on Reactive dye	Completed	2012
18.	Study on the effect of temperature on the properties of dyed fabric in stenter machine	Completed	2012
19.	Study on the determination of the suitable brightener for jute fabrics	Completed	2012w
20.	Production of jute knitted outer-wears with jute woollenised yarn and study of its market feasibility	Completed	2013
21.	Technical services to industries to promote marketing of the jute goods at home and abroad	Completed	2012
22.	Manufacturing of knitted jute shopping bags of different sizes and fancy items of different designs for improving market potentiality	Completed	2014

23.	Manufacturing of different traditional jute products assuring qualities with cost minimization for market potentiality	Completed	2014
24.	Studies on jute Dyeing phenomenon with Different Dyes	Completed	2014
25.	Comparative study between chemically modified jute fiber and optical brightener treated jute fiber	Completed	2016
26.	Study on the effect of soda concentration during dyeing of jute product by Reactive dye	Completed	2018
27.	Manufacturing of dust resistant knitted jute fabric of different design and construction for improvement of Jute knitted fabric uses	On going	2018
28.	To develop a special oil stain removing reagent for jute based fabrics and diversified products to increase their diversified usage and market potentiality	On going	2018
29.	To develop natural dyes absorption on modified jute fabrics	Completed	2022
30.	Assessment of physicochemical, mechanical and thermal properties of jute waste generated from jute processing industries and economic viability of its diversified use as fuel cake, activated carbon fiber, insulation material and absorbent	On going	2019
31.	Studies on jute hand-made paper from jute and jute waste for ecological conservation	On going	2019
32.	Studies on salt free dyeing of jute with a view to reducing process cost and environment pollution	On going	2019
33.	Study on sustainability of woven jute geo textiles in geo technical engineering by treated bitumen emulsion of different concentration.	On going	2022
34.	Development of purl fabric by using flatbed knitting machine.	On going	2020
35.	Development of a special washing, laundering and softening reagent for jute based fabrics and products to increase their diversified usage and market potentiality and also identify the characteristics of oil stained treated fabric by different physical method.	On going	2022

Research Programme executed: 15

Sl. No.	Research Program(s) / Project(s)	Implementation Status	Remarks/Duration
1.	A study on structural compatibility of jute with man-made textile fibers used in jute blends.	Implemented	World bank financed ARMP project. I was co-investigator of that project. 1999-2001.
2.	Innovation of dyed jute knitted fabric in	Implemented	NATP financed project, I

	textile technical sectors.		was principal investigator of that project 2017-2018
3	Study on structural compatibility jute and mane made fiber used in blended diversified jute fabric.	Completed	2001
4.	Improvement of productivity and quality of traditional jute yarns.	Completed	2005
5.	Study on the physical properties of all jute, ply-blended union fabric.	Completed	2005
6.	Development of new jute products to improve the market potentiality.	Completed	2005
7	Study of continuous measurement of width of jute diversified fabric	Completed	2006
8.	Studies on the physical properties of diversified jute fabrics of blended yarns with different structures and designs.	Completed	2006
9.	Study on physico-mechanical properties on all jute blended jute blanket.	Completed	2007
10.	Studies on the development of jute bags in the cottage industry.	Completed	2008
11.	Productivity improvement of a spinning mill.	Completed	2008
12.	Studies on the development of the properties of chemically modified jute blended knitted sweater of different structures.	Completed	2008
13.	Control of liquor ratio in jute dyed fabric for cost minimization	Completed	2014
14.	Study on the effect of various dyeing parameters on color strength and fastness properties of jute cotton lycra knit fabric.	Completed	2018
15	Cost minimization and process optimization for comfort properties assessment on single jersey and rib knitted fabrics	Completed	2022



Signature of Applicant
Dr. Nazmina Chowdhury
Principal Scientific Officer
Wet Processing Department
Pilot Plant and Processing Division
BJRI, Manik Mia Avenue
Dhaka -1207.