1	Name	: Dr.H.M. Zakir Hossain
2	Father's Name	: Md. Faroz Ali Howlader
3	Mother's Name	: Meherun Nesha
4	Husband's Name(if applicable)	: Not applicable
5	Gender	: Male
6	Present Address	Chief Scientific Officer(RW)
		Product Development Division
		Bangladesh Jute Research Institute(BJRI)
		Manik Mia Avenue, Dhaka-1207
		Mobile :01718693974
7	Permanent Address	: Village: Chengutia ,P.O.Dhandoba
		P.S.Agailzhara, Dist: Barishal, Bangladesh
8	Date of birth	: 01-11-1968
9	Age (as 01-01-2023)	: 54 years 2 months o days
10	Educational Qualification:	

# CV of Dr.H.M. Zakir Hossain

# Educational Qualification

Degree/Diploma/ Certificate	Class/Grade/ Division	University./Institute / Board	Year
Junior Scholarship	Talent group (1 <sup>st</sup> in Gournadi PS)	Khulna Division	1980
S.S.C.(Science)	1 <sup>st</sup> Division	Jessore Board	1983
H.S.C.(Science)	1 <sup>st</sup> Division	Dhaka Board	1985
B.Sc in Textile Technology (4 years course)	1 <sup>st</sup> Class (9 <sup>th</sup> position)	Dhaka University	1989
Ph.D	Awarded	Jahangirnagar Universirsity	2019

### 11. Field of Specialization

	a) Spinning, Dyeing and Finishing of jute blended fibres through R &D at Jute Textile Wing,BJRI
Field of Specialization	b) Dyeing and Finishing processing of Jute in both laboratory and pilot scale through optimization of physico- mechanical properties.
	c) Mechanical Processing of Jute and Textile fibres through working in Jute & Textile spinning industries and delivering lectures to the students of Textile Engineering.
	d) Handmade paper development from jute and jute waste to be used as substitute of polyethylene bags.

#### In Country (a) Organization Duration Name of Programme Sl.N Year Mos. Days 2022 05 Project Monitoring and Reporting 45 BARC 2021 44 BJRI 01 Income Tax Return 2021 43 BJRI 01 Grievance Redress 42 BJRI 2021 01 Annual Performance Agreement(APA) 41 BJRI 2020 01 Workshop on Basic and Applied Research on Jute(BARJ) BJRI Sustainable Development Goal 40 2020 01 39 BJRI 2020 02 Public Procurement Procedures (Goods, Works & Services) BJRI 2020 01 Right to Information 38 BJRI 2020 Annual Confidential Report 37 01 (ACR) Writing BARC 2020 05 Technical Report Writing and 36 Editing BJRI 2020 02 Service Process Simplification 35 34 BJRI 2020 02 Workshop on Diversified Jute Products Developed by BJRI: its Uses and Challenges 33 BJRI 2019 01 **E-Filing** National institute of local government 2019 Workshop on Social 32 01 Accountability Mechanism under Platforms for Dialouge (P4D) project WTO cell, Ministry of Commerce 2019 01 WTO National workshop on 31 Notification Requirement 30 CPTU, Ministry of Planning 2019 03 National e-Government Procurement (E-GP) Portal as Procure Entity(PE) user. 29 2019 Sustainable Development Goal BJRI 01 28 WTO cell ,Ministry of Commerce 2019 01 Workshop on the WTO aggrement of Agriculture and its Notification. 27 BJRI 2018 02 Project Appraisal Study 26 NATA 2018 15 Public Procurement Procedure 25 BJRI 2018 03 Agricultural Project Development Evaluating colorfastness & 24 AATCC 2013 02 physical properties of Textiles BARC Financial management and 23 2013 01 Purchase rules. 22 BARC 2013 01 Dev. of electronic compendium on **Research Findings** 21 Traidcraft,UK 2012 02 Good Service Provision 20 Traidcraft,UK 2012 11/2 Carbon Foot Print Calculation 19 Traidcraft,UK 2012 02 Quality Assurance Dyeing of jute & jute products 18 Traidcraft,UK 2011 04 17 Traidcraft,UK 2011 Market Access 05 16 Traidcraft,UK 2011 05 **Business** coaching Traidcraft,UK Business coaching (TOT) 2011 05 15 14 BUET, Bangladesh & 2010 03 Processing & Performance of low Katholieke University, Belgium cost Polymer composite DPDT, Bangladesh & WIPO, EC WIPO Intellectual Property 2009 13 11 12 2009 Financial Management BARC 03 Dhaka 11 BARC 2006 02 Project Development & Dhaka Management 10 BARD 2006 06 Entrepreneurship Development Comilla 2002 09 Jute and Jute blends with Flax and 09 BJRI, Bagladesh

#### 12. Training:

2

	IFTH,Frence.				Wool
	Funded by EEC.				
08	BARD,Comilla .	2001		03	Follow-up workshop on
	Funded by BARC				Foundation training Course
07	Bangladesh Jute Research Institute.	2000		05	Library Documentation
	Funded by BARC				
06	BARD,Comilla .	2000	03	13	Foundation Training Course for
	Funded by BARC				NARS Scientists
05	EADS, Dhanmondi. Funded by	1999	01	15	Computer Training Course on MS
	BARC				office,SPSS,e-mail.
04	BEXIMCO, Dhanmondi. Funded by	1995		25	Training on Communicative
	BEXIMCO				English
03	Ciba-Geigy,Dhanmondi	1992	02		Training on Pretreatment, Dyeing
	Funded by Ciba-Geigy				and Finishing
02	Latif Bawany Jute Mills Ltd Funded	1991	01		Yarn(Jute) Spinning
	by BJMC				
01	Meghna Textile Mills, Tongi.	1991	01		Yarn(Cotton) Spinning
	Funded by BTMC				

## (b) Abroad:

	Year	Dur	ation	Name of Programme	
	Country		Mos.	Days	
	China	2019		15	Technical Setting and Operations of New Textile testing Equipment & Processing Parameter of Jute Cotton and Blended fiber on New Machineries'.

# 13. Experience:

Position		Period	
	From	То	Total
			Yr/Mo
Production Officer (PO),BEXIMCO,Dhaka	21-12-92	29-06-1996	3/6
Scientific Officer (SO),BJRI,Dhaka	30-06-1996	22-09-2004	8/2
Senior Scientific Officer (SSO) ,BJRI,Dhaka	23-09-2004	23-11-2015	11/2
Principal Scientific Officer(PSO),BJRI,Dhaka	24-11-2015	30-01-2022	6/2
Chief Scientific Officer (CSO) ,BJRI,Dhaka	31-01-2022	Continued	1/0

# 14 Publications (SO to PSO):

# Details of Publications of Dr. H M Zakir Hossain

	Publis	shed	Accepted f	for Publication		Total	G.Total
Туре	Principal author	Co- author	Principal author	Co-author	Principal author	Co-author	
Full scientific paper	16	16	01	02	17	18	35
Short	01	00	00	00	01	00	01
Communication							
Popular article	06	00	01	00	07	00	07
Monograph	14	04	01	00	15	04	19
Book/Booklet	04	00	00	00	04	00	04
Bulletins	01	00	00	00	01	00	01
S. paper in	10	00	00	00	10	00	10
seminar							
Total	52	20	03	02	55	22	77

# List of Publication as Principal Author:

Sl N.	Publication Type	Publication Status	Publication Description
16	<b>Full Scientific</b> (Principal author)	Published	Hossain, H.M.Zakir; Rahman, S.M.B; Saifullah, Md Khaled; Rashid, M.M.; Sultana, Nayer .2022Study on Enhancement of Hydrophobic Property of Handmade Paper from Raw Jute by Using MCC as External Additives. Daffodil InternationaLUniversity journal of science and technology.Volume 17 Issue 1 January 2022 pp 10-13
15	<b>Full Scientific</b> (International) (Principal author)	Published	<b>Hossain,H.M.Zakir;</b> Asaduzzaman,M;Azad,M;Chowdhury,N;Uddin,MK and Hussain,M.Z.2010. Study on Hydrophobic Property of Handmade PaperTreated by Wax. Journal of Innovation & Development Strategy (JIDS). Canada .Vol-4, Issue; 1 August 2010 P 1-4.
14	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir;</b> Rahman,S.M. B; Saifullah ,Khaled; Rashid, M.M. Samina Jafrin and Uddin ,Md.Kamal.2009. Study on the Directional Strength of Handmade Jute Paper Treated by Various Additives Bangladesh Journalof Jute and Fibre Research.;2008, Vol-28(2) P 61-69
13	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Rahman,S.M .B; Saifullah ,Khaled; Rashid, M.M and Uddin ,Md.Kamal.2008. Effect of Reinforcement on Hydrophobic Property of Handmade Jute Paper . Bangladesh Journal of Jute and Fibre Research.;2008, Vol-28(1) P 1-5
12	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir;</b> Uddin ,Md.Kamal; Saifullah ,Khaled; Rashid, M.M.and M M Mollah .2010. Hydrophobic Property of Handmade Paper Treated by sizing Material 'Rosin' Daffodil InternationaLUniversity journal of science and technology.Volume 5 Issue 1 January 2010 pp 48-52.
11	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Rahman,S.M .B; Saifullah ,Khaled; Rashid, M.M.and Uddin ,Md.Kamal.2008. Study on Strength Behaviour of Handmade Paper Treated by wax emulsion. Bangladesh Textile Journal.March/April 2009 Year : 2 Issue : 02 pp 25-28
10	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Rahman,S.M .B; Saifullah ,Khaled; Rashid, M.M. and Uddin ,Md.Kamal.2008. Effect of Reinforcement on Strength Behaviour of Handmade Jute Paper .Daffodil International University journal of science and technology.Volume 4 Issue 1 January 2009 p45-49
09	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Saifullah,Khaled; Rashid,MM; Uddin,Md.Moslem; Jafrin, Samina and,Uddin, Moslem,Uuddin,Md. Kamal.2008. Study on hydrophobic property and strength behaviour of handmade jute paper treated by various internal and external additives. Journal of Textile Engineers andTechnologists (ITET), Bangladesh.Volume December 2008. P-73
08	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ;Mamaunur Rashid, Mohammad and Moslem uddin, Md2008. Effect of ANBC ring cut ring cops on hard waste of finishing section of spinning mill. Journal of Textile Engineers and Technologists (ITET), Bangladesh.Volume 10 December 2008 P-18
07	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ;Rahman ,Md.Siddiqur; Matin ,Nilufar; Abdullah,ABM.2006.Application of Microcrystalline Cellulose(MCC) to increase hyrophobic properties of handmade paper produced from jute waste. Bangladesh Journal of Jute and Fibre Research.;2006, Vol-26 (1-2) P 12-17
06	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ;Rahman ,Md.Siddiqur; Matin ,Nilufar; Abdullah,ABM.2004. Modification of Handmade Paper (produced from jute) by Carboxy Methyl Cellulose (CMC) in mixture with MCC suspension for its increasing hydrophobic property. Bangladesh Journal of Jute and Fibre Research.;2006, Vol-26 (1-2) P 18-24
05	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> . 2000 .Effect of Intervals of Pneumafil Waste Collection (PWC) on End Breakage in Ring Spinning. Journal of Textile Engineers & Technologist (ITET), Bangladesh Vol-8, P 75-78
04	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Sutrahar, N.C.1999. Comparative study on the properties of Ring and Rotor Spun yarn. Journal of Textile Engineers & Technologist (ITET), Bangladesh; 1999,vol-7,P 8-12
03	<b>Full Scientific</b> (Principal author)	Do	<b>Hossain, H.M. Zakir</b> ; Chowdhury, Moazzem Hossain. 1997. Potentiality of Jute carpet as a global floor covering. Journal of Engineers & Technologist (ITET), Bangladesh ; 1997, Vol-6, P 23-25

			5
02	Full Scientific	Do	Hossain, H.M. Zakir ; Matin, Nilufar; lutfar, latifa Binte
	(Principal author)		;Chowdhury,Moazzem Hossain;Rahman ,Md.Siddiqur.2002.Studies on
			physico-mechanical properties and spinnability of Dhabdhabey Pat
			compared to CVL-1. Bangladesh Journal of Jute and Fibre Research.;1998-
			99, Vol-23(1&2) P 47-52
01	Full Scientific	Accpted for	Hossain, H.M. Zakir and Sarker, Zahid.2021. Study on Strength Behaviour
	(Principal author)	publication	of Handmade Paper Treated by Sizing Material 'Rosin'. Accepted for
	(I Interput dation)	Publication	publication in Bangladesh Journal of Jute and Fibre Research of incoming
			issue.
01	Short	Published	Hossain, H.M. Zakir; Rahman, S.M .B; Saifullah ,Khaled; Rashid, M.M.
01	Communication	Tublisheu	and Uddin ,Md.Kamal.2008. Study on Strength Behaviour of Handmade
	(Principal author)		Paper Treated by MCC as External Additives South East University Journal
	(Filicipal autior)		
07	Donulan Antiala	Published	of science and Engineering .Volume 4 No 4 December2009.p 87-93
07	Popular Article	Published	Hossain ,H.M.Zakir. 2020. Memorising Liberation war : Blood stream still
	(Principal author)		alive. 100 successful life stories 2020. Research publication of Textile
0.1			Museum.p 316-318
06	Do	Do	Hossain ,H.M.Zakir. 2020. Vision:Textile Research Council. 100 successful
	(Principal author)		life stories 2020. Research publication of Textile Museum. p 175-178.
05	Do	Do	Hossain ,H.M.Zakir. 2020. Textile Education and Research movement . 100
	(Principal author)		successful life stories 2020. Research publication of Textile Museum.p 112-
			115
04	Do	Do	Hossain ,H.M.Zakir. 2004 .Polyethylene: A Monster to Environment.BJRI
	(Principal author)		newsletter "Jute and Jute Fabric"; Vol-30 No-4, April-June 2004.
03	Do	Do	Hossain,H.M.Zakir. 2002. The Future Horion of Jute. Monthly
	(Principal author)	-	prodyut (A periodical of Bangladesh Development council).Vol-
	(par aution)		10 No-11, July-2002.P 9-10
02	Do	Do	Hossain,H.M.Zakir .2002 .Bright future of jute in pulp and
02	(Principal author)	20	Paper industry. BJRI newsletter "Jute and Jute Fabric" ;Vol-27
	(I Interpar autior)		No-1, Jan-March 2002.
01	Donulan Antiala	Accord	Hossain ,H.M.Zakir. 2021. China at a Glance. 100 successful life stories
01	Popular Article	Accepted	
	(Principal author)	for	2021. Research publication of Textile Museum.
		publication	
17			
17	Monograph	Published	Hossain,H.M.Zakir Molla,Jannatul Baki.2022.Jute,Cotton and Viscose
17	<b>Monograph</b> (Principal author)		Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE
	(Principal author)	Published	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-45-45 No.1-6 June 2022.p-23-26
17 16	(Principal author) Do		Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.
	(Principal author)	Published	Blending : A New Prospect. BJRI newsletter "JUTE ANDJUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paperIndustry of Bangladesh.BJRI
	(Principal author) Do	Published	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March
16	(Principal author) Do (Principal author)	<b>Published</b> Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5
	(Principal author) Do (Principal author) Do	Published	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of
16	(Principal author) Do (Principal author)	<b>Published</b> Do	<ul> <li>Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-45-45 No.1-6 June 2022.p-23-26</li> <li>Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007. Potentiality of jute in pulp and paper Industry of Bangladesh. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March 2010.p-5</li> <li>Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of jute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"</li> </ul>
16	(Principal author) Do (Principal author) Do	<b>Published</b> Do	<ul> <li>Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-45-45 No.1-6 June 2022.p-23-26</li> <li>Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007. Potentiality of jute in pulp and paper Industry of Bangladesh. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March 2010.p-5</li> <li>Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of jute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"</li> </ul>
16	(Principal author) Do (Principal author) Do	<b>Published</b> Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of
16	(Principal author) Do (Principal author) Do (Principal author) Do	Published Do Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application ofjute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-36No-1 January-March 2009.p-5Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technical
16	(Principal author) Do (Principal author) Do (Principal author)	Published Do Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application ofjute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-36No-1 January-March 2009.p-5Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technicaltextile :Present scenerio . BJRI newsletter "JUTE AND JUTE FABRICS"
16 15 14	(Principal author) Do (Principal author) Do (Principal author) Do (Principal author)	Published Do Do Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application ofjute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-36No-1 January-March 2009.p-5Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technicaltextile :Present scenerio . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-35 No-4 October-December 2008.p-6
16	(Principal author) Do (Principal author) Do (Principal author) Do (Principal author) Do	Published Do Do	<ul> <li>Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-45-45 No.1-6 June 2022.p-23-26</li> <li>Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007. Potentiality of jute in pulp and paper Industry of Bangladesh. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March 2010.p-5</li> <li>Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of jute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS" Vol-36No-1 January-March 2009.p-5</li> <li>Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technical textile :Present scenerio . BJRI newsletter "JUTE AND JUTE FABRICS" Vol-35 No-4 October-December 2008.p-6</li> <li>Hoassain,H.M.Zakir and Maniruzzaman,M2007. High performance Jute</li> </ul>
16 15 14	(Principal author) Do (Principal author) Do (Principal author) Do (Principal author)	Published Do Do Do	Blending : A New Prospect. BJRI newsletter "JUTE AND JUTEFABRICS" Vol-45-45 No.1-6 June 2022.p-23-26Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007.Potentiality of jute in pulp and paper Industry of Bangladesh. BJRInewsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March2010.p-5Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application ofjute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-36No-1 January-March 2009.p-5Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technicaltextile :Present scenerio . BJRI newsletter "JUTE AND JUTE FABRICS"Vol-35 No-4 October-December 2008.p-6Hoassain,H.M.Zakir and Maniruzzaman,M2007. High performance Jutetechnical textile: Recent Development. BJRI newsletter "JUTE AND JUTE
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16         15         14         13         12         11         10         09         08	(Principal author) Do (Principal author)	Published         Do         Do	<ul> <li>Blending : A New Prospect. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-45-45 No.1-6 June 2022.p-23-26</li> <li>Hossain ,H.M.Zakir ;Kabir,MM,Sultana,Nayer and Shahinor,Sweety.2007. Potentiality of jute in pulp and paper Industry of Bangladesh. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-37 No-1 January-March 2010.p-5</li> <li>Hoassain,H.M.Zakir and Saifullah,Khaled.2007.Potential application of jute in technical textile . BJRI newsletter "JUTE AND JUTE FABRICS" Vol-36No-1 January-March 2009.p-5</li> <li>Hoassain,H.M.Zakir and Maniruzzaman,M2007.Jute technical textile :Present scenerio . BJRI newsletter "JUTE AND JUTE FABRICS" Vol-35 No-4 October-December 2008.p-6</li> <li>Hoassain,H.M.Zakir and Maniruzzaman,M2007. High performance Jute technical textile: Recent Development. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-35 No3-July-September 2008.p-5</li> <li>Hossain, H.M. Zakir .2007. Construction of jute composite for automobile. BJRI newsletter "JUTE AND JUTE FABRICS" Vol-34 No-1 January- March 2007</li> <li>Hossain ,H.M.Zakir &amp; Khan,MA.2007. Technological research of jute: Success and Potential. Weekly Britter Bairy.29 September,2008.P-16</li> <li>Hossain ,H.M.Zakir ;Saifullah ,Khaled.2007. Role of jute in developing environment. Weekly Britter Bairy.26,November 2007 P-16</li> <li>Hossain ,H.M.Zakir: 2007. Use of jute in vehicle industry. BJRI newsletter "Jute and Jute Fabric";Vol-30 No-4,April-June 2007.</li> </ul>

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	(Principal author)		fibre jute is coming .Weekly Britter Bairy.26,March 2007 P-14
05	Do	Do	Hossain ,H.M.Zakir & Khan,MA.2007. Unknown Characteristics of jute
	(Principal author)		.Weekly Britter Bairy.21, February 2007.P16-17
04	Do	Do	Hossain ,H.M.Zakir. 2002. The Suffering Profile of Polyethylene.
	(Principal author)		Monthly prodyut (A periodical of Bangladesh Development
			council).Vol-11 No-1, September 2002.P21-22
03	Do	Do	Hossain, H.M. Zakir. 1992. Textile Industry of Asia: A Commentry.
	(Principal author)		Monthly prodyut (A periodical of Bangladesh Development council)
			p-9
02	Do	Do	Hossain, H.M. Zakir.1990. Textile Engineering & Technology Education
	(Principal author)		in Bangladesh: Present and future. "Unnayan Bitarka", Journal of
			Bangladesh Development Council .No-3 vol 10, P 38 - 60
01	Do	Accepted	Hossain, H.M. Zakir: Billah, Mohtasim. 2002 . Study on the Labour
	(Principal author)	for	Cost in the textile industries of the world. Accepted for publication
		publication	in Monthly prodyut (A periodical of Bangladesh Development council).
01	Book	Published	Hossain, H.M.Zakir.1999. Textile Industry & Education
	(Principal author)		
02	Do	Do	Hossain, H.M.Zakir.1998. Textile Education in Bangladesh
	(Principal author)		
03	Do	In Press	Hossain, H.M.Zakir.2002. A Guide on Modern Spinning
	(Principal author)		Technology for long Staple Fibres. Volume one (in press).
04	Do	In Press	Hossain, H.M.Zakir.2002. A Guide on Modern Spinning
	(Principal author)		Technology for long Staple Fibres. Volume two (in press).
01	Bulletin (Booklet)	Published	Hossain ,H.M.Zakir .2001.Uster Ring Data : A Revolution in spinning .
	((Principal author)		

# List of Publication as Co- Author:

S1 N.	Publication Type	Publication Status	Publication Description
19	Full Scientific (International) (Co-author)	Published	Rashid MM, Rahman MO, Khan MH, Himel MFA, <b>Hossain HMZ</b> and Khatun M .2023.Studies on Mechanical Properties of Jute Sliver Reinforced Unsaturated Polyester Resin (UPE) Composite. Environ Sci Arch 2(1):65-74.
18	<b>Full Scientific</b> (International) (Co-author)	Published	Md Redwanul Islam, Dr Hosne Ara Begum, Sharif Ahmed, Dr <b>HM Zakir</b> <b>Hossain</b> and Fahmida-E-Karim. 2022 .Design and Fabrication of an Instrument for Splitted Jute Fiber Length Measurement. Research & Development in Material science. Volume 18 Issue 2 ,December 2022 pp 2059-2064.
17	<b>Full Scientific</b> (International) (Co-author)	Published	Mahbubul Alam, <b>HM Zakir Hossain</b> , Zakaria Ahmed and Mahmuda Khatun.2022Effect of Process Variables on Chemical Treatment of Jute Fibers. ENVIRONMENTAL SCIENCE ARCHIVES. Volume 1 Issue 2 ,September 2022 pp 74-80
16	<b>Full Scientific</b> (International) (Co-author)	Published	Uddin,MK; <b>Hossain,H.M.Zakir</b> ;Sarker Zahid ,Jahan,Nusrat and Sultana, Nayer. Effective Cross-linking dyeing method for jute fabric with reactive dyes. 2019. European Scientific JournalVol -15 No 27 (201 ESJ September Edition P 125-135
15	<b>Full Scientific</b> (Co-author)	Published	Uddin,MK;Molla,ME;Rahman,SMB and <b>Hossain,H.M.Zakir.</b> Infrared Study on Crosslinked Dyed Jute Fabric. 2013. Journal of Textile EngineeringVol TE-01, Issue ;01 December 2013 P 71-76
14	<b>Full Scientific</b> (Co-author)	Published	Uddin,MM; <b>Hossain,H.M.Zakir;</b> Chowdhury,Nazmina;Arju,Sharfun Nahar,Shahinor sweety and Kaiser, Abdullah.2013.Effect of Chemical Treatment on the Physical Properties of Different Portion of Jute . Journal of Textile EngineeringVol TE-01, Issue; 01 December 2013 P 67-70.
13	<b>Full Scientific</b> (Co-author)	Do	Siddique,MAB;Jalil,MA;Mahahuhuzzaman,AKM and; <b>Hossain, H.M. Zakir</b> .2009.Effect of Dyeing parameters on dyeing of knitted fabric with Remazol Dye.Bangladesh Journal of Jute and Fibre Research.;2009, Vol- 29 (1-2)P 59-62
12	<b>Full Scientific</b> (Co-author)	Do	Rashid,MMR; <b>Hossain, H.M. Zakir</b> ; Uddin,MM; Jubayer,MMU; and Hasan,S. 2009. Study on effect of harvesting age on physico-mechanical properties of white jute Breeding line BJC-718.Bangladesh Journal of Jute and Fibre Research.;2009, Vol-29 (1-2) P25-29
11	Full Scientific (Co-author)	Do	Jalil,MA ;Siddique,MAB;Shahid,MA; <b>Hossain, H.M. Zakir</b> & Mahbubuzzaman,AKM .2008.Comparative study on the spinnability of

			7
			Bangladeshi cotton and Pakistani cotton. Bangladesh Journal of Jute and Fibre Research.;2008, Vol-28(2) P 55-60
10	<b>Full Scientific</b> (Co-author)	Do	Moslem Uddin,Md.; <b>Hossain</b> , <b>H.M. Zakir</b> ;Mahbubuzzaman,AKM;Salam Kkan,MA and Saifullah, Khaled .2008. Selection of product mix of a textile spinning mill by linear programming. Journal of Textile Engineers and Technologists (ITET), Bangladesh.Volume 10 December 2008 P-21
09	<b>Full Scientific</b> (Co-author)	Do	Moslem Uddin,Md.;Anwarul Haque,AFM;Hasin,Ahsan Akhter; <b>Hossain</b> , <b>H.M. Zakir</b> ;Mahbubuzzaman,AKM .2008. Identification of the critical factors of yarn breakage in ring spinning by desin of experiment.Journal of Textile Engineers andTechnologists (ITET), Bangladesh.Volume 10 December 2008 P-66
08	Full Scientific (Co-author)	Do	Azad, MAK;Jafrin,Samina;Uddin,Kamal and <b>Hosain,H.M.Zakir</b> .2008. Preparation of rot proof nursury pot by using different types of chemicals and their comparative study.Journal of Textile Engineers and Technologists (ITET), Bangladesh.Volume 10 December 2008 P-18
07	<b>Full Scientific</b> (Co-author)	Do	Shahidullah,Md;Islam ,Ahmed Zakaria,Akhter Foroza , Halim A and Hossain, H.M. Zakir; 2008. Use of Cassava ( <i>Manihot Esculanta</i> ) as Natural and Indigenous Thickener for Preparation of Textile Printing Paste. Bangladesh Journal of Progressive Science and Technology.Vo;-6 No-2 July 2008 P 507-510
06	<b>Full Scientific</b> (Co-author)	Do	Uddin,MK;Molla,ME;Rahman,SMB; <b>Hossain, H.M. Zakir</b> .2008. Optimization of crosslinking dyeing method for jute fabric with reactive dyes. Daffodil InternationaL University journal of science and technology.Volume 3 Issue 2 July 2008 pp 24-31
05	<b>Full Scientific</b> (Co-author)	Do	Jafrin , Shamina;Uddin,MK;Dilruba,FA;Sultana,Nayer and <b>Hossain, H.M</b> . <b>Zakir</b> .2008. Rot-Proofing of Jute Fabrics by Using Copper Ammonium Carbonate Solution. Daffodil InternationaL University journal of science and technology.Volume 3 Issue 2 July 2008 pp 51-54
04	<b>Full Scientific</b> (International) (Co-author)	Do	Uddin,MK;Molla,ME;Rahman,SMB ;Azad,MAK; <b>Hossain, H.M. Zakir</b> ; Jubayer,MMU.2007.Physical properties of jute dyed fabric crosslinked with No-DMDHEU.2007.Journal of Biological Science .Vol-7,No- 1(Pakistan) pp 68-70
03	<b>Full Scientific</b> (Co-author)	Do	Anwar,Md Masroor;Bhuiyan,MAH; <b>Hossain, H.M. Zakir</b> and Mollah.2005. Studies on the dielectric constant of jute fibre by impedance analyzer. Bangladesh Journal of Jute and Fibre Research.;2006, Vol-26 (1- 2) P 51-57
02	<b>Full Scientific</b> (Co-author)	Accepted for Publication	Mohammad Mamunur Rashid, Md.Obaidur Rahman, Mubarak Ahmad Khan, Md Fakrul Abedin Himel and <b>H.M.Zakir Hossain</b> .2023.Studies on Mechanical Properties of Jute Fabric Reinforced Unsaturated Polyester Resin (Upe) Composite. Accepted for publication in incoming issue of Bangladesh Textile Journal.
01	<b>Full Scientific</b> (Co-author)	Do	Mohammad Mamunur Rashid, Md.Obaidur Rahman, Mubarak Ahmad Khan, Md Fakrul Abedin Himel. and <b>H.M.Zakir Hossain</b> .2023. Effect of Water Absorption on Mechanical Properties of Jute Fabric Reinforced Unsaturated Polyester Resin (Upe) Composite.Accepted for publication in incoming issue of Bangladesh Textile Journal.
01	<b>Monograph</b> (Co-author)	Do <b>Published</b>	Abdullah,ABM; <b>Hoassain,H.M.Zakir</b> .1997.The bank for guaranted quality fibres.The journal of Textile Engineers and Technologists,Bangladesh .Vol-6 P-37
02	Do (Co-author)	Do	Shahidullah, Md. <b>Hossain ,H.M.Zakir</b> ;Kawser, Abdullah .2009. Design and Printing on jute fabrics .Weekly Britter Bairy.28,December 2009 P-23

## miner/Cumperium/werkehen hu Dr.U.M. Zekir Useesin

1	Presented the Key-note of the seminar entitled "Studies on Physico-Mechanical,Comfort and Allied Properies of Dved Jute Eabrics" which was held on 26.02 2020 at Bandadesh Jute Research Institute				
2	of Dyed Jute Fabrics" which was held on 26.02.2020 at Bangladesh Jute Research Ins				
2	Presented the Key-note of the seminar entitled "Studies on Physico-Mechanical,Com				
	of Dyed Jute Fabrics "Final Part which was held on 08.04.2018 as seminar for PhD at Jahangirnagar University.				
3	Presented the Key-note of the seminar entitled " Studies on Physico-Mechanical,Com	fort and Allied Properio			
5	of Dyed Jute Fabrics " Part-2 which was held on 01.12.2016 as seminar for PhD at Jahangirnagar				
	University (JU)	The at Jananghinag			
4 Presented the Key-note of the seminar entitled " Studies on Physico-Mechanical,Comfort a					
•	of Dyed Jute Fabrics "Part-I which was held on 29.02.2012 as seminar for PhD at JU				
5	Presented the Key-note of the seminar entitled " Comperative Study on the Properties				
	Yarn " which was organized by BJRI on June 20,2002.	<i>8 </i>			
6	Presented the Key-note of the seminar entitled "Environment Pollution : Time to				
	Claim Compensation for Bangladesh" which was organized by BJRI on June 9, 2002.				
7	Presented the key-note paper entitled "Textile Engg and Technology Education:	Present and Future" in			
	seminar held on May 04, 1991 which was addressed among others by Prof. Moniru	zzaman Mia (Ex V.C			
	DU), Dr. Akhteruzzaman (DU), Dr. Mizanur Rahman (BUET), Dr. A.B.M. Abdulla	h (BJRI), Dr. Mostafiz			
	Rahman (Textile Engg. College)				
8	Presented paper on field study of Primary Education Status of the village "West Coa	tbari" near BARD which			
	was organized by BARD,Commilla onSeptember,2000				
9	Presented paper on the review of the book "Environmenr: The Role of Political Part	ies"which was organize			
	by BARD,Commilla on October,2000.				
10	Presented Key-note of the seminar entitled "Problem in Textile Education: Autonom				
	was organized by Progati Pat Chakra, College of Textile Engineering, Tejgaon Dhaka-	-1208 in 1991.			
	ation (SO to PSO):				
Suii I	Imary of publications:       (a)     Scientific journals	1			
		No of nublication			
	(1) Full popor	No. of publication			
	(i) Full paper (a) Paper published in the Reputed International Journal				
	<ul> <li>(1) Full paper</li> <li>(a) Paper published in the Reputed International Journal</li> </ul>	No. of publication 6			
	(a) Paper published in the Reputed International Journal	6			
	<ul><li>(a) Paper published in the Reputed International Journal</li><li>Principal author</li></ul>	6			
	(a) Paper published in the Reputed International Journal	6			
	<ul><li>(a) Paper published in the Reputed International Journal</li><li>Principal author</li><li>Co-author</li></ul>	6 1 5			
	<ul><li>(a) Paper published in the Reputed International Journal</li><li>Principal author</li></ul>	6			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author</li> <li>Co-author</li> <li>(b) Other International &amp; National Journal</li> </ul>	6 1 5			
	<ul><li>(a) Paper published in the Reputed International Journal</li><li>Principal author</li><li>Co-author</li></ul>	6 1 5 29			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author</li> <li>Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author</li> </ul>	6 1 5 29 15			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author Co-author</li> <li>(ii) Short Communication</li> </ul>	6 1 5 29 15 14 1			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author</li> <li>Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author</li> <li>Co-author</li> <li>(ii) Short Communication</li> <li>Principal author</li> </ul>	6 1 5 29 15 14 1 1			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author Co-author</li> <li>(ii) Short Communication</li> <li>Principal author Co-author</li> </ul>	6 1 5 29 15 14 1			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author Co-author</li> <li>(ii) Short Communication</li> <li>Principal author Co-author</li> <li>(b) Books/ Monograph/Bulletins</li> </ul>	6 1 5 29 15 14 1 1 0			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author Co-author</li> <li>(ii) Short Communication</li> <li>Principal author Co-author</li> </ul>	6 1 5 29 15 14 1 1			
	<ul> <li>(a) Paper published in the Reputed International Journal</li> <li>Principal author Co-author</li> <li>(b) Other International &amp; National Journal</li> <li>Principal author Co-author</li> <li>(ii) Short Communication</li> <li>Principal author Co-author</li> <li>(b) Books/ Monograph/Bulletins</li> </ul>	6 1 5 29 15 14 1 1 0			

Co-author

Co-author

Bulletins

Co-author

(ii)

(iii)

(c)

Monographs

Principal author

Principal author

(i) International/National Principal author

Co-author

Seminar/ Workshop/ Symposium Proceedings

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19

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#### 15. Research achievement (as PSO):

- (i) No. of technology developed: 10 + 8 = 18 (Annexure-I)
- (ii) No. of research programme (Annexure-II)
- a) Developed : 28
- b) Supervised : 07
- c) Executed : 14

#### (16) Outstanding achievement (as SO to PSO)

i	Award Received:				
	a.	Honored as best scientist of 2022 and <b>National Jute Award 2022</b> was given by Ministry Textile and Jute, Government of Peoples Republic of Bangladesh on the eve of National Jute Day, March 6, 2022.			
	b.	Got <b>BARC Chairman's Award</b> for outstanding performance in the fourth Foundation Training sponsored by BARC and held in BARD, Comilla in 2000			
	c.	Awarded 'Special Increment' in recognition of contentment of BJRI authority and efficiency in 2019.			
	d.	<b>Ph.D Scholarship awarded</b> from BARC, Dhaka received for perusing PhD in Jahangirnagar University in 2014.			
	е.	<b>Junior Scholarship awarded</b> in Talent group and stood 1 <sup>st</sup> in Gournadi PS (now Gournadi and Agaiulzhara upazilla) in 1980.			
ii	Patent	Registration :			
	a.	A patent has <b>been</b> registered for protection of the invention "A process for the production of blended denim from jute cotton blended fibres" by Department of Patent ,Design and Trademarks, Government of the People's Republic of Bangladesh .Patent No. 1005089 of 2009,Issue No.149/09/5143 Date : 29/12/12.			
	b.	A patent application has been registered for protection of the invention "A process of salt free dyeing for plain jute fabric known as Carpet Backing Cloth (CBC)" by Department of Patent, Design and Trademarks, Government of the People's Republic of Bangladesh .Patent Appl.No. 111/2019/652 Date: 24/02/2020.			
	c.	A patent application has been registered for protection of the invention "A process for the producing high strength and hydrophobic Handmade paper (HMP) from jute." by Department of Patent, Design and Trademarks, Government of the People's Republic of Bangladesh. Patent Appl.No. 112/2019/1240 Date: 08/06/2020.			
iii	Super	vision of thesis :			
	a.	Supervising PhD thesis entitled "Studies on Physio-Mechanical, Comfort and Allied Properties of Cotton Spandex Polyester Blended Single Jersey Knit Fabrics" of Kazi Md.Elias Roll No. 37 Registration no.3318, Session: 2021-22 in Physics Department of Jahangirnagar University.			
	b.	Supervised and examined MS thesis entitled "Design and Fabrication of an Instrument for Splitted Jute Fiber Length Measurement." of Md.Redwanul Islam, Student ID No. 2018-2-1-1009, Session:2017-18 of Department Yarn Engineering, Bangladesh University of Textiles (BUTEX) as external member.			
	c.	Supervised and examined MS thesis entitled "Modification of Drafting Zone of Jute Flyer Spinning Frame to Improve the Jute Yarn Quality" of Md. Khalilur Rahman, Student ID No. 2013-2-1-003, Session: 2012-2013 of Department Yarn Engineering, Bangladesh University of Textiles (BUTEX) as external member.			
		Supervised MS research entitled "Jute Geo–Textile effectiveness in Bangladesh" conducted at Bangladesh University of Dhaka (DUET) under guidance of Abdullah Kafi, Lecturer, DUET.			
iv	Editor	to Journal and Newsletter :			
		Has been working as Technical Editor of BJRI Journal and Newsletter Editorial Board and worked as member of BJRI Newsletter Advisory Committee for 4 years earlier.			
		Contributing as a regular member of editorial board for Annual Programme and Annual Report of BJRI Technology Wing.			

v	Teacher and Examiner to University :				
	<ul> <li>Contributed as part-time teacher and examiner of Bangladesh University of Textiles (BUTEX) (former college of Textile Engg. &amp; Technology under University of Dhaka), as part of education assistance given to BUTEX by BJRI.</li> </ul>				
	b. Contributed as examiner of Maulana Bhasani Science and University, Tangail.	Technology			
vi	Policy Making :				
	a. Formulated Research Vision-2041 of Jute-Textile Wing,	BJRI			
	b. Played a key role in the formulation of Dynamic <b>HRD Pl</b>	an for Jute Textile Wing upto 2041			
	c. Played an important role in the proposed <b>manpower rest</b> and development activities of BJRI.	tructuring with a view to strengthening research			
	d. Providing active cooperation in formulating recommen External Expert Panel ( <b>EEP</b> ) formed with the aim of impr				
	e. Worked in preparing <b>BARC promotion and recruitmer</b> BARC.	at criteria for NARS Institutes to be imposed by			
	f. Played major role in formulating Bangladesh Jute Packagi	ng Act 2010.			
	g. Contributed in preparing "The Road Map of Jute" formu	lated by International Jute study group.			
	h. Contributed in preparing " <b>Textile Policy</b> " of Bangladesh by Ministry of Textiles and Jute.	by making comments of Textile Policy Prepared			
vii	Preparation of Project/Status paper :				
	a. Playing a key role in the preparation of the <b>DPP</b> for "Innovation of eco-friendly home textile technology with				
	b. Prepared status paper on "Jute-Wool Blending" for the p	roject to be taken jointly by BJRI & Australia.			
	c. Prepared <b>status paper</b> on "Potentiality of jute in pulp and be taken jointly by BJRI & China.	l paper industry of Bangladesh" for the project to			
	d. Prepared jointly a project entitled" Commercial Appl Finishing Method for Jute, Jute-Cotton Union and Jute which was submitted to International Jute Study Group, D	e-Cotton Blended Fabrics with Reactive Dyes"			
	e. Prepared jointly a project entitled" Development and Me wing" which was submitted to Ministry of Agriculture, Ba				
viii	<b>Focal Point for Parliamentary Standing Committee:</b> Working related Standing Committee of Bangladesh National Parliament.	g as Focal Point of BJRI regarding Agriculture			
ix	Member of Vital Committee: Enhanced research activities of different committees like BJRI man-power restructuring Committe with a view to promoting extension of BJRI technologies. Prepa Annual Performance Agreement(APA) monitoring committee, Of Charter Monitoring Committee (CCMC),Joint Working group (J Prime Minister's commitments and Instructions, pension Comm Bio-Data Evaluation Committee for SSO recruitment, etc.	ee, Writing/publishing articles in different media ring handbook of BJRI developed technologies, fficial Cost Estimate Committee(OCEC),Citizen WG) of BJRI & BCSIR, Cell for Implementing			
X	Enhanced research activities of BJRI through spending huge unus <b>possible time</b> as TEC member.	ed money by evaluating tenders within shortest			
xi	Worked as member of Quality Circle in Technology Wing of BJF	RI			
xii	Worked as member of the committee for preparing specification of				
xiii	Role in Development of Jute Textile Wing,BJRI (Former JTP)(a) Played vital role in selecting process line for Blow roomanalyzing blow room lines of 12 textile mills of Banglade	om suitable jute and its blend after visiting and			
	(b) Worked as key person in preparing tender document for 2003.	r purchasing Blow Room machine of JTPDC in			
	(c) Worked as one of the members of the Technical comm room machine for Jute and Textile Product development of				
	(d) Worked as one of the members of the Technical comm spinning machine for Jute and Textile Product developme				
	(e) Contributed in the meeting of Tender Evaluation Commit	tee of "Supply, Installation and Erection of a new			

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	Rotor Spinning Machine for JTPDC".
	(f) Contributed as the member of the committee to assist "Post-Shipment inspection" of the imported Blow room machinein 2005.
	(g) Worked hard for collecting cotton from Gazipur farm of Cotton Development Board and jute from Jute Goods Association.
	(h) Prepared official Estimated Cost of various machine repairing and servicing.
xiv	Worked as a member of the committee for preparing Annual Technical Programme 2006-2007 & 2007-2008 and Annual Technical Report 2005-2006 & 2006-2007,2008-14,2018-2022 of Technology Wing, Annual Technical Programme 2020-21 and Annual Technical Report 2021-22,Research Highlights 202020-21,Research Achievement 2020-21 of Jute Textile Wing.
XV	Worked as a member of the committee for preparing report on Instron testing machine of Textile Physics Division
xvi	<b>Resource Speaker in Training :</b> Contributed as resource speaker in more than ten training programs.
xvii	Worked as <b>Rapporteur</b> of different seminar, workshop and meetings organized by BJRI.
xviii	Participated in different exhibitions on behalf of BJRI to popularize the jute diversifed products.
xix	Performed extra duty for manufacturing jute bags for supplying in the "Grand Convention of Agriculture Workers" which was attended by Prime Minister of Bangladesh at BARI, Gazipur.
XX	Worked as convener and member of a lot of purchase committee of BJRI
xxi	Performed all duties accordingly assigned by CSO, Director & DG
xxii	Working as <b>member of Design Review Committee</b> under the chairmanship of Renowned Water Resource Specialist Prof. Dr. Ainun Nishat for Jute Geo-Textile to be used in Pilot River Bank Protection Work applying new technique by Manob Hitoishi Sangstha under the assistance of Bangladesh Water Development Board.
xxiii	Worked as CSO (RW): worked as CSO (Routine Work) of Pilot Plant and Processing Division from 30.04.2014 to 30.05.2014.
xxiv	Associated as member with the following Professional bodies, social network and scientific forum:
	(a) Bangladesh Jute Research Scientists' Association
	(b) Institute of Textile Engineers and Technologists(ITET), Bangladesh
	(c).Bangladesh Association for Scientist & Scientific Professions
	(d) Bangladesh Association for Advancement of Science
	(e) The Institution of Engineers, Bangladesh(IEB)
	(f) The Science Direct (Netherlands)
	(g) American Association of Textile Dyers and Colorist(AATCC)
XXV	<b>Contribution to Liberation War:</b> Sacrificed some drops of blood owing to injury in leg caused by bullet of Pakistani occupation army on 15 may, 1971 during liberation war of Bangladesh.

Signature of Applicant:

February 21, 2023

Dr.H.M.Zakir Hossain Chief Scientific Officer (RW) Product Development Division Jute Textile Wing Bangladesh Jute Research Institute Manik Mia Avenue Dhaka-1027

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#### Annexure-I

#### **15. Research achievement as PSO** 15(i) **Technology Developed**

SL	Name of technology developed	Present status of Adoption	Remarks
No			
01	Development of denim fabric by blending jute with cotton in rotor spinning system	The technology developed in JTPDC with the collaboration of private Textile mills and now ready to be transferred.	I worked as <b>Co-investigator</b> in this research project
02	Chemical modification of jute fabric with various Dyes by Cross-Linking Technique	The technology ready to be transferred	I worked as <b>Co-investigator</b> in this research project
03	Development of hyrophobic handmade paper from jute to be used as substitute of polyethylene bags.	MOU signed between BJRI MCC, an American NGO to develop and commercialize the product. Ten scientific papers on handmade paper have been published in different journals.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
04	Preparation of rot proof nursery sheet/pot by using different types of chemicals and their comparative study.	This technology already transferred to BJMC, Nawapara Jute Mills Ltd.,Golden Fibre and JDPC through MOU.	I worked as <b>Co-investigator</b> in this research project
05	Development of fuel cake from jute waste to be used as an alternate source of energy.	Standardization and adaptation processes of fuel cake are going on.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
06	Saltfree dyeing technology of jute.	Applied for patent registration and 15 scientific papers on saltfree dyeing of jute is under publication process.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
07	Dyeing of jute fabric dyeing Jet machine instead of Jigger machine with a view to promoting productivity.	Standardization and adaptation processes of jute fabric dyeing in jet dyeing machine are going on.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
08	Upgrading the physical properties of different bags made of dyed jute fabrics	Pilot scale trials for developing fabric for bags are under processing.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
09	Development of comfort properties of sofa cover, cushion cover, bed sheet, bed cover, kitchen and factory apron.	Pilot scale trials for developing fabric for sofa cover, cushion cover, bed sheet, bed cover, kitchen and factory apron. are under processing.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
10	Promoting handle propreties of curtain cloth, prayer mat, table mat, shoe, sandal made of dyed jute fabric.	Pilot scale trials for developing fabric for curtain cloth, prayer mat, table mat, shoe, and sandal are under processing.	I worked as <b>Principal</b> <b>Investigator</b> in this research project
11	Development of resiliency of Jute and Jute blended carpet. BJRI Annual Technical Report 1998.PP 133-140	The technology was developed with the colllaboration of Furat karnafully Carpet Factory (FKCF) Ltd., Chattagong Technology is ready for transferring to the Jute Industries.Paper published in the journal of ITET Vol-6 .1997.PP-23- 25	I worked as Principal Investigator in this research project

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12	Development of jute blending	The technology was developed with	I worked as
	technique in rotor spinning	the collaboration of College of	Co Investigator in this
	technology BJRI Annual Technical	Textile Technology, Dhaka.	research project
	Report 1999-2000.PP 4- 7	Technology can be transfered after standardization.	
13	Establising the superiority of rotor	The technology was developed with	I worked as
15	spinning system over the ring	the collaboration of College of	Principal Investigator in this
	spinning system for coarse count in	Textile Technology, Dhaka.	research project
	the perspective of Bangladeshi cotton	Technology is ready for	research project
		transferring to the Tex. Mills. Paper	
		published in the journal of ITET	
		Vol-7.1997.PP-8-12	
14	Technology of reducing ends down	The technology was developed with	I worked as Principal
	rate in Textile (spinning) Mill	the collaboration of Padma Textile	Investigator in this research
	through controlling pneumafile waste	Mills, N.ganj in1996.Technology	project
	collection.	already transferred to the Padma	
		Textile Mills Ltd. Paper published	
		in the journal of ITET Vol-	
15	Technology of reducing hand to in	8.2000.PP-75-78	Lucertrad as Dringing
15	Technology of reducing hard waste in finishing section of spinning mills	The technology was developed with the collaboration of Padma Textile	I worked as Principal Investigator in this research
	ministing section of spinning minis	Mills, N.ganj in 1996. Technology	project
		already transferred to the Padma	project
		Textile Mills Ltd. Scientific paper	
		published in the journal of ITET	
16	Invstigation of spinnability of	The spinnability of Dhabdhabey pat	I worked as Principal
	Dhabdhabey pat by studying physico-	established. Paper published in the	Investigator in this research
	mechanical properties and spinning	journal of Jute and Fibre Research	project
	performanc .BJRI annual Technical	Vol -23(1&2)1998-99PP47-	
	Report 1998.PP-5-8	52(Press copy)	
17	Identification of the best fibre by	The research is going on. Report	I worked asCo Investigator in
	studying the Physico-chemical	has been published in the annual	this research project
	properties of jute of different age.	Technical Report of BJRI	
	BJRI annual Technical Report		
	1997.PP		
18	Problem identification of Ring	The technology was developed with	I worked as Principal
10	section of Spinning Mill through	the collaboration of Padma Textile	Investigator in this research
	Quality Circle.Quality Circle Report	Mills, N.ganj in 1996. Technology	project
	.1996H.M.Zakir HossainPadma	already transferred to the Padma	project
	Textile Mills.PP 1-3	Textile Mills Ltd	
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#### Annexure-II

# 15(ii) Research programme Developed /Supervised/Executed:

SL. No.	Name of Programme developed	Present status of Execution	Remarks
01	Study on the physico-mechanical properties of Dhabdhabey pat and allied fibres BJRI Annual Technical Report 98-99 P 6-9	Executed	I worked as <b>Principal-investigator</b> in this research project
02	Production of fine yarn by blending jute (raw and modified) with cotton in rotor spinning technology. BJRI Annual Technical Programme 2000-2001 P 4-6	Executed	I worked as <b>Co-investigator</b> in this research project
03	Production of jute reinforced composites by using different available method. BJRI Annual Technical Programme 2000-2001 P 1-3.	Developed	I worked as <b>Principal investigator</b> in this research project
04	To improve the production and quality perfomance of conventional flyer frame by changing processes and processing parameters. BJRI Annual Technical Programme 2000-2001 P 3-5.	Developed	I worked as <b>Principal investigator</b> in this research project
05	Studies on some physical and textile properties of jute and allied fibres. BJRI Annual Technical prigramme 2000-2001 P 17-18	Executed	I worked as <b>Co-investigator</b> in this research project
06	Production of jute (fibre,sliver,yarn and fabric) reinforced paper composites by using different available method. BJRI Annual Technical Programme 2003-2004 P 1-3.	Executed	I worked as <b>Principal investigator</b> in this research project
07	Production of pulp from jute waste and to study its economic feasibility. Annual Technical Report 2003-2004. PP -135	Executed	I worked as <b>Co-investigator</b> in this research project
08	Production of new jute products for textile uses. BJRI Annual Technical Programme 2005-2006 P 65-67.	Executed	I worked as <b>Co-investigator</b> in this research project
09	Production of rot proof jute fabric for nursery sheet/pot. BJRI Annual Technical Programme 2005-2006 P 71-72.	Executed	I worked as <b>Co-investigator</b> in this research project
10	Pilot scale production of jute based sanitary napkin and to study its market feasibility, entrepreneur's development and technology transfer. BJRI Annual Technical Programme 2005-2006 P 72-74.	Developed	I worked as <b>Co-investigator</b> in this research project
11	Technical services to industries to promote marketing of jute goods at home and abroad. BJRI Annual Technical Programme 2005-2006 P 76-77	Executed	I worked as <b>Co-investigator</b> in this research project
12	To optimize the rot proofing process for jute fabric in pilot scale with natural material. BJRI Annual Technical Programme 2008-2009 P 105-106.	Supervised	I worked as <b>Co-investigator</b> in this research project
13	To study the effect of acid and alkali on jute. BJRI Annual Technical Programme 2008-2009 P 107-108	Supervised	I worked as <b>Co-investigator</b> in this research project
14	Determination of actual percentage of jute and cotton in the blended yarn. BJRI Annual Technical Programme 2009-2010 P 66-68.	Developed	I worked as <b>Co-investigator</b> in this research project
15	Production and development of new jute products (calendar,nursey pot ) for textile	Developed	I worked as <b>Principal-investigator</b> in

	uses. BJRI Annual Technical Programme		this
16	2012-2013 p 73-75,2010-2013 p76-77 Production of outer wear with woolenised jute yarn and study its market feasibility.	Supervised	research project I worked as <b>Co-investigator</b> in
	BJRI Annual Technical Programme 2012- 2013 p 77-78.		this research project
17	Study on the determination of suitable brightener for jute fabric. BJRI Annual Technical Programme 2012-2013 p 79-80.	Supervised	I worked as <b>Co-investigator</b> in this research project
18	Study on the control of liquor ratio in jute dyed fabric for cost minimization. BJRI Annual Technical Programme 2012-2013 p 84-86/	Executed	I worked as <b>Co-investigator</b> in this research project
19	Studies on jute dyeing phenomenon with reactive dyes. Annual Technical Report 2005-2006 nad 2006-2007 PP 97-98	Executed	I worked as <b>Principal-investigator</b> in this research project
20	Processing of different types of jute wastes for production of fuel cake. Annual Technical Report 2006-2007 and 2007- 2008 PP 71-72	Executed	I worked as <b>Principal -investigator</b> in this research project
21	Study the effect of acid and alkali on jute. Annual Technical Report 2008-2009 PP 108-111	Supervised	I worked as <b>Co-investigator</b> in this research project
22	Study and development of water repellent finishing process for jute product. BJRI Annual Technical Report 2010-2011.PP 114-116	Supervised	I worked as <b>Co-investigator</b> in this research project
23	Production of outer wears with jute woolenised yarn and studies its market feasibility. BJRI Annual Technical Programme 2012-2013 PP 77-78	Executed	I worked as <b>Principal Co-investigator</b> in this research project
24	Technical services to services to the industries to promote marketing of jute goods at home and abroad. Annual Technical Report 2012-2013.89-91	Executed	I worked as <b>Principal-investigator</b> in this research project
25	Study on the effect of temperature on the properties of dyed fabric in stenter machine. BJRI Annual Technical Programme 2012-2013 PP 87-88	Developed	I worked as <b>Co-investigator</b> in this research project
26	Standardization of jute dyeing with non- conventional technique BJRI Annual Technical Programme 2018-72019 PP 88- 90.	Executed	I worked as <b>Principal-investigator</b> in this research project
27	8tilization of jute & jute waste and environment conservation. Annual Technical Programme 2018-2019 PP 83- 84.	Developed	I worked as <b>Co-investigator</b> in this research project
28	Assesment of physico-chemical,mechanical and thermal properties of jute waste generated from jute processing industries and economic vianbility of its diversified use as fuel cake,activated carbon,insulation material and absobent. Annual Technical Programme 2019-2020 PP 75-76	Supervised	I worked as <b>Co-investigator</b> in this research project