



JUTE AND JUTE FABRICS BANGLADESH

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Newsletter of BJRI

No. 1

Dr. S. M. Nazmul Islam, Secretary, MoA paid a visit to BJRI

A training programme entitled "Producing Yarn through Finisher Drawing and Rotor machines" was held at the Jute & Textile Product Development Centre (JTPDC), Bangladesh Jute Research Institute (BJRI) during 02-06 February, 2014. Dr. S. M. Nazmul Islam, Secretary, Ministry of Agriculture (MoA) inaugurated the training programme as chief guest. Dr. Wais Kabir, former Executive Chairman and Dr. Md. Kamal Uddin, Executive Chairman (Additional Charge) of Bangladesh Agricultural Research Council (BARC) and Director General of BJRI were the Special Guests. The inaugural session was chaired by Dr. Md. Abul Kalam Azad, Director (Jute-Text.), BJRI. DG, BJRI gave the welcome address and thanked the chief guest and special guest for paying a visit to BJRI and owed gratefulness to Dr. Wais Kabir, Executive Chairman (Rtd.) for



Dr. S. M. Nazmul Islam, Secretary, Ministry of Agriculture (MoA) inaugurated the training programme as Chief Guest. Dr. Md. Kamal Uddin, Executive Chairman (Additional Charge) of (BARC) delivered welcome address

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providing Electric Rotor Frame machine to JTPDC from NATP, BARC. Dr. Wais Kabir, Executive Chairman (Rtd.) also expressed his satisfaction to have a part for providing the Electric Rotor Frame machine to BJRI. He also thanked BJRI to arrange such a training programme and for inviting him in this occasion.

The chief guest Dr. S. M. Nazmul Islam in his speech mentioned that jute is our pride which was also related to our independence. He urged for need based research and development of diversified jute goods. He thanked BJRI to arrange such a training programme has positive impact for technology dissemination among producers and entrepreneurs. After the inauguration Dr. Islam visited JTPDC and switched on the Electric Rotor Frame machine.

Dr. Md. Kamal Uddin, Director General, BJRI Joined as the Executive Chairman of BARC

Dr. Md. Kamal Uddin, Director General, Bangladesh Jute Research Institute (BJRI) Joined as the Executive Chairman (Additional Charge) of Bangladesh Agriculture Research Council (BARC), the apex body of the National Agricultural Research System (NARS) on 20 January, 2014. This is first time that a Director General from BJRI has taken charge of the Executive Chairman of BARC.



Profile of Dr. Md. Kamal Uddin:

Dr. Md. Kamal Uddin has taken over the charge of Director General of Bangladesh Jute Research

Institute (BJRI) on 26th November 2009. Before joining in this post he holds the position of Director (Technology) and also the charge of Director, Jute and Textile Product Development Centre (JTPDC), BJRI.

Dr. Kamal was born in a respectable Muslim family in the village of Simla bazar, Sarishabari Upazilla under Jamalpur District on 31st October, 1954.

He has obtained his M.Sc. degree from Dhaka University. Later he was awarded Ph.D. degree from the Jahangirnagar University in 2006.

Dr. Kamal has been serving BJRI since 1977 in different disciplines in Technological Research Wing, BJRI. Gradually he builds up a career with diverse experience as researcher, administrator, planner as well as policy maker.

He has published more than 40 scientific articles in various journals and proceedings in home and abroad. He also patented seven (7) processing technologies of jute, published in the Bangladesh Gazette. During his services he visited UK, France, China, Saudi Arabia, Qatar, Thailand, India and Vietnam.

Dr. Kamal also acting as Project Director of the outstanding project "Basic and Applied Research on Jute (BARJ)", outcomes of which are the decoding of tossa jute, white jute and devastating fungus *Macrophomina Phaseolina*, genomes. He is associated with many scientific and professional associations in home and abroad.

High official Bhutanese Delegation visited BJRI

A high official of four members Bhutanese Delegation visited Bangladesh Jute Research Institute (BJRI) led by Mr. Namgay Wangchuk, Director General, Council for RNR Research of Bhutan (CoRRB) on 13 February 2014. Dr. Md. Kamal Uddin, Director General, BJRI and Executive Chairman (Additional Charge), Bangladesh Agricultural Research Council (BARC) welcomed the delegation in BJRI by giving a bunch of flowers to each member of the team.



At the beginning of the discussion meeting Dr. Md. Kamal Uddin, Director General, BJRI and Executive Chairman (Additional Charge), Bangladesh Agricultural Research Council (BARC) delivered his welcome address and highlighted the Institute with emphasis on jute in national and international level. He acknowledged the 1st recognition of Bhutan for newly independent Bangladesh. He requested Dr. S. M. Mahbub Ali, PSO (cc), PTC division to give a brief presentation on "Research and Development of Jute & Allied fibre crops in Bangladesh". Dr. Ali nicely presented the objectives, activities and achievements of the Institute. Mr. Namgay Wangchuk, Director General, Council for RNR Research of Bhutan (CoRRB) gave a speech on Bhutanese agriculture and shown his interest on hill agriculture of Bangladesh. He thanked BJRI authority for providing such a warm reception at BJRI. He exchanged his views and ideas with Directors, senior Scientists in a congenial atmosphere. On behalf of BJRI, DG gave some Bangladeshi jute products to the delegates as gift. The delegate visited Gene Bank and Jute & Textile Product Development Centre (JTPDC) of BJRI.



Production and Trade Status of Jute in Bangladesh

Dr. S. M. Mahbub Ali, PSO (cc) and Dr. Chandan Kumar Shaha, CSO (cc)
Planning, Training & Communication Division, BJRI

World Exports of raw Jute

World export of raw jute in 2008-09 and 2009-10 appears to be lower than those of previous three years (Table-3). Bangladesh is the only major raw jute exporter accounting for 90-95% of total raw jute export. The export of raw jute from Bangladesh in volume terms has gone down which may be attributed to the fact that recently the Bangladesh Government has taken steps to open some of the closed public sector jute mills because of which domestic consumption of raw jute has increased. The temporary ban on export of raw jute from Bangladesh in 2009-10, and the high prices of raw jute since last few years are responsible for low export volume. The export by the developed countries has also decreased drastically since 2008-09 due to high price. It indicates that the jute traders in the developed countries are becoming less active due to high prices and uncertainty in the supply system.

Table 3. World export of raw jute, kenaf and allied fibres (in '000 MT)

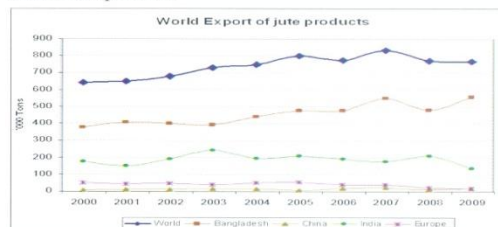
	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10
World	307.4	304.9	473.0	374.2	343.3	468.7	467.1	523.2	326.7	325.5
Bangladesh	279.8	253.9	453.4	342.9	306.7	440.5	439.7	495.0	314.9	315.0
China	2.2	2.0	1.3	1.0	0.6	0.3	0.1	0.2	0.6	0.1
Myanmar	10.0	30.6	4.1	16.9	13.7	5.6	9.0	0	0	0
Thailand	1.8	1.1	1.1	1.1	1	1.1	0	0	0.1	0
Developed Countries	12.8	16.5	10.8	10.9	16.8	16.1	14.6	23.4	8.2	5.6

Source: International Jute Study Group, 2011

World Exports of Jute Products

World export of jute products in volume terms in 2008 and 2009 appears to be somewhat static although lower than those in 2005 and 2007 (Figure 2). In case of export of Bangladesh jute products the scenario is a little different and encouraging as the export in 2009 has increased to 560 thousand tons which is 16.7% higher than the previous year. Export of jute products by India shows an increasing trend as it exported 177.8 thousand MT in 2000 and 207.6 thousand MT in 2008, an increase of 16.8% during the last 8 years. Export by Europe and Thailand has a declining trend while export by Nepal and China shows an increasing trend. China is now exporting jute shopping bags to various countries reflected in its increasing exports. Exports from India also show a declining trend except in the year 2008. The increase of export of jute products by China is due to initiative taken by China to become a major manufacturer and exporter of jute shopping bags to different countries. This is a good sign for the jute sector as a whole since the manufacturing capacities of China are well known to capture the market which is likely to sustain the demand of jute products in global market. At the same time, this trend is a matter of concern for jute diversified products

manufacturers in both India and Bangladesh since the jute diversified products manufacturers in these countries need to reposition themselves for such a formidable future competition.



Source: International Jute Study Group, 2011

Figure 2. World export of jute products

Export Earnings

About 97% of raw jute and 73% of jute products is exported from Bangladesh in the world jute export market in 2009 (IJSJ, 2011). In 2000-2001, the export earnings from raw jute and jute products from Bangladesh was Taka 1676 crore which was gradually increased thereafter. But this amount is surprisingly increased in the recent years. In 2009-2010 and 2010-2011 that were Taka 4984 crore and Taka 6638 crore respectively. But the percent share of the total export earnings either decreased or remain static (around 4-5%) due to inclusion of other product like garment, lather, shrimp etc. in the export items. This increasing trend of export earnings of jute might be attributed to environmental cautiousness of the world thus stepping forward to the natural fibre by escaping from the perilous impact of synthetic fibre to the environment. With the growing awareness about pollution free environment natural fibre products made of jute are going to have a huge potential market and this growth prospect seems to have been established jute again as "Golden Fibre" of Bangladesh.

Table 4. Export earnings of raw jute & jute goods and its share with total export earnings of Bangladesh from 2000-2001 to 2010-2011

Year	Raw jute	Jute goods	Total export (Raw jute + jute goods)	(In Crore Taka)
				% Share with total export earnings of Bangladesh
2000-2001	402	1274	1676	5.17
2001-2002	379	1398	1777	5.74
2002-2003	401	1272	1673	5.03
2003-2004	454	1271	1725	4.25
2004-2005	564	1677	2241	4.41
2005-2006	860	2159	3019	4.82
2006-2007	977	2602	3579	4.53
2007-2008	1075	2490	3565	4.10
2008-2009	923	2348	3271	3.35
2009-2010	1328	3656	4984	4.87
2010-2011	1888	4750	6638	4.59

Source: Bangladesh Bank (Monthly Economic Trends, February 2012).



Dr. Md. Kamal Uddin, Executive Chairman (Additional Charge) of Bangladesh Agricultural Research Council (BARC) and Director General of BJRI hoisted the National Flag

International Mother Language Day 2014 Observed at BJRI

Bangladesh Jute Research Institute (BJRI) observed International Mother Language Day and the Shaheed Dibosh 21st February, 2014 in a befitting manner. The day's programme started with the hoisting of National Flag at half mast in BJRI premises by Dr. Md. Kamal Uddin, Director General, BJRI and Executive

Chairman, Bangladesh Agricultural Research Council (BARC) at 7:30 in the morning. Directors, Scientists, Officers and Staff attended the programme. Dr. Md. Kamal Uddin, Director General, BJRI announced a Monument (Shaheed Minar) would be established at the very programme place. Every body appreciated and welcomed the declaration with big hands. Prayers were offered for salvation of the souls of the valiant language martyrs. After the prayer sweets were distributed among all present on the occasion.

BJRI celebrated the "INDEPENDENCE DAY 2014"

Bangladesh Jute Research Institute (BJRI) celebrated 44th Independence Day with renewed vigour to build a prosperous and peaceful Bangladesh. Freedom Fighter Dr. Md. Kamal Uddin, Director General, BJRI and Executive Chairman (Additional Charge), Bangladesh Agricultural Research Council (BARC) hoisted the National Flag at 7:30 in the morning on the day of Independence. A guard of honour was given by the Anser Contingent deployed in BJRI. Directors, Scientists, Officers and Staff attended the programme and prayed for the departed souls of martyrs and progress of BJRI and as well as for the country. After the prayers biriani was distributed to the children and invited guests.



Training on "Computer Fundamentals and Internet Use" held at BJRI

A training programme entitled "Computer Fundamentals and Internet Use" was held at PTC Division, Bangladesh Jute research Institute (BJRI). The training was divided into two batches consisting of thirty trainees in each batch. The first batch training was held during 04-06 March, 2014 and the second batch was 11-13 March 2014. The inaugural session of the training was chaired by Mohammad Hussain, Director (Agril.), Dr. Md. Kamal Uddin, Executive Chairman of Bangladesh Agricultural Research Council and Director General of BJRI was the Chief Guest of the training Programme.



Dr. Md. Kamal Uddin, Executive-chairman (Additional Charge) of Bangladesh Agricultural Research Council (BARC) and Director General of BJRI inaugurated the Training programme

Thirty participants (Computer Operators, Upper division Clerks, Head Assistants) from BJRI head quarter, regional stations, sub-stations attended the training programme. Md. Asaduzzaman, Director (Tech.) and Dr. Md. Abul Kalam Azad, Director (Jute Text.), CSOs of BJRI were present on the occasion. Dr. Md. Mujibur Rahman, CSO, PTC was the moderator of the inaugural session.

The training had a strong positive impact on improvement of computer use and office management. The participants were exposed to different operating technologies and techniques of computer and use of internet and of course, that training might enrich their knowledge of using computer and internet.

Concluding session was chaired by Dr. Md. Mujibur Rahman, CSO (cc), PTC Division, Dr. Md. Kamal Uddin, Executive Chairman, BARC and Director

General, BJRI distributed certificates among the participants as a chief guest. He urged to use the technologies and techniques in office and daily life, whatever they learnt from the training. He thanked PTC Division and trainers to arrange such a training programme. Md. Moniruzzaman, PSO(cc) and Dr. Md. Mujibur Rahman, CSO (cc), PTC Division were the Course Co-ordinator and Course Director, respectively of the training programme.

A Seminar held at BJRI



Scientists of all levels were present and enjoyed the seminar

A Seminar entitled "Breeding for salt tolerant jute variety through rapid screening and marker assisted selection" held on 17th February 2014, in the Committee Room of Bangladesh Jute Research Institute (BJRI). Dr. Mahmud Al Hossain, Principal Scientific Officer (PSO) presented the Seminar. Dr. Hossain reported that it is possible to grow jute in Kharif-1 season at coastal areas in Bangladesh. Dr. Md. Kamal Uddin, Director General, BJRI and Executive Chairman, BARC was present as Chief Guest on the occasion. Dr. Hossain isolated four salt tolerant jute lines through rapid screening which can be grown up to high level of soil salinity. This innovation may increase cropping intensity by expanding jute cultivation in the southern region of Bangladesh where most of the cultivable land remains fallow during Kharif-1.

Mohammad Hussain, Director (Agril.), all scientists of BJRI were present and enjoyed the seminar.

Ph.D. Degree is conferred upon Md. Shahidul Islam

Md. Shahidul Islam received PhD degree from the Department of Biochemistry and Molecular Biology, University of Dhaka. He earned his PhD degree for submitting his dissertation titled "Improvement of jute through manipulation with useful gene(s)" under the guidance of Prof. Haseena Khan of the same department.

Dr. Shahidul developed a tissue culture independent transformation protocol for jute and subsequently he developed transgenic jute plant introducing katF gene from *Escherichia coli* into jute cultivar BJRI Tossa pat-4 for the improvement of salt tolerance. This is the first transgenic approach for developing jute plants tolerant to an abiotic stress, and hence could be considered a significant achievement in the field of jute biotechnology.

He graduated in B.Sc in Agriculture from Bangladesh Agricultural Institute, Dhaka presently Sher-E-Bangla Agricultural University in 1991 (held in 1995) and he completed post-graduate degree in Genetics and Plant Breeding from Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur in 2000. Dr. Shahidul



started his carrier on 30 June, 1996 as a Scientific Officer at Bangladesh Jute Research Institute (BJRI). Now he is serving as Program Manager (Basic Research), Basic and Applied Research on Jute project, BJRI. He has attended some professional training courses both at home and abroad. Dr Shahidul awarded Chairman's Award first position from foundation training course for NARS scientist's (2nd batch) organized by Bangladesh Academy for Rural Development, Comilla. He was born 10th September 1970 in Dhamrai, Dhaka and he is the son of Md. Abdul Barek and Mrs.

Anwara Begum. Dr. Shahidul is happily married to Sharmin Jahan Rinki and blessed with one daughter Sabah Binte Shahid and one son Alman Islam Rashad.

His research interest is plant comparative and functional genomics, molecular genetics, plant genome annotation and phylogenetics. He published more than twenty five scientific papers in different national and international peer-reviewed journals.

BJRI scientist Ranjit Kumar Ghosh achieved Ph.D. degree

Ranjit Kumar Ghosh received Ph.D. degree from Kasetsart University, Bangkok, Thailand in 2013. His thesis title was "Assessment of Genetic Diversity and Salinity Tolerance in Jute". Assistant Professor Dr. Chalernpol Phumichai of some mentionul was his research advisor. Dr Ranjit Kumar Ghosh got scholarship from National Agricultural Technology Project, (Phase-1), Bangladesh Agricultural Research Council. In the past, Dr. Ghosh coltaiued his Bachlor of Science in Agriculture (B.Sc. Ag.) degree in 1991 from Bangladesh Agricultural University, Mymensingh. He also successfully completed his Master of Science (M.S) degree in the field of Genetics and Plant Breeding in 2003 from the same University.

Dr. Ghosh started his professional career on 30 June, 1996 as Scientific Officer in Bangladesh Jute Research Institute (BJRI). He promoted to Senior Scientific Officer on 22 September, 2004. With time, he builds up



his career with Farm management, research and administration. At present, he is working in Cytogenetics Department, Genetic Resources and Seed

Division of BJRI. He has a good number of scientific publications in different national and international journals. During his Ph.D. study, he successfully completed training on Public Awareness on Plant Genetic Resources and Suitable Biotechnologies for its Conservation and Utilization

Dr. Ghosh was born on 01 July, 1970 in Jessore and he is elder son of Sukumar Ghosh and Gita Rani Ghosh. In personal life he is happily married to Prothima Ghosh in 1999 and blessed with two lovely daughters Nijhum Ghosh and Nimpa Ghosh.

Md. Nasir Uddin awarded Ph.D degree

Md. Nasir Uddin has been awarded Ph.D degree in Autumn/2012 term from Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh. His thesis title is "Seed Hardening Effects on Physio-chemical Properties, Storability and Quality of Jute Seed." His dissertation Supervisor and chairman of advisory committee was professor Dr. M. Moynul Haque, Head, Seed Science and Technology unit BSMRAU. Dr. Nasir was born on 1st January 1969 in Gazipur district.



He joined at BJRI as Scientific Officer on 30th June, 1996 and promoted to Senior Scientific officer on 22 September, 2004. Presently he has been serving as Principal Scientific officer (cc) of Jute Farming Systems Division, BJRI.

Ph.D. Degree is conferred upon M. M. Alamgir Sayeed

Indian Institute of Technology Delhi (IIT Delhi) awarded the degree Doctor of Philosophy to M M Alamgir Sayeed for the thesis entitled "Mechanical Properties of Hybrid Needle-punched Nonwoven Structures and their Composites" in April 2014. His PhD supervisor was Dr. Amit Rawal, Associate Professor, Department of Textile Technology of Indian Institute of Technology Delhi. Mr. Sayeed was awarded PhD scholarship from the NATP: Phase 1 of Bangladesh Agricultural Research Council (BARC), Farmgate, Dhaka.

In his PhD work he reports the research and innovation work conducted on the hybrid needle-punched nonwoven structures produced from jute and polypropylene (PP) fibres in defined weight proportions. These structures were thoroughly investigated for their applications in geotextiles and reinforced in composite structures. Needle-punched nonwoven structures fabricated from both untreated and sodium hydroxide (NaOH) treated jute fibres have been investigated and it was established that needle-punched nonwoven structures consisting of 40% alkali treated jute fibres and 60% polypropylene fibres had similar or even superior mechanical properties as compared to 100 % polypropylene fibres based nonwoven structures. In the studies of nonwoven composites, the effect of stacking sequence of nonwovens on the mechanical properties of Jute/PP composites has also been analyzed. It was found that altering the layers of nonwovens having preferential and non-preferential alignments of fibres has yielded the maximum magnitudes of tensile and flexural moduli specially for jute contents of 23 and 33 wt.%.



Dr. Sayeed graduated from the University of Dhaka in 1992 (held in 1994) with 1st class 2nd position in Textile Technology. Subsequently, he obtained his M Tech in Textile Engineering from the M S University of Baroda, Gujarat, India in 2000 under the Indian Council of Cultural Relations (ICCR) scholarship programme of the Government of India. He started his research career on 30 June 1996 as a Scientific Officer in the Textile Physics Division of Bangladesh Jute Research Institute (BJRI). Now he is working as a Principal Scientific Officer (current charge) in the Textile Physics Division

of BJRI. Before joining BJRI he worked as a Production Officer in the Quality Control Department of Prime Composites Mills Ltd, Pagla, Narayanganj from December 1994 to June 1996. Dr. Sayeed has published more than thirty scientific papers in different national and international journals. Recently he has published five scientific papers from his PhD thesis in different reputed international peer-reviewed journals namely, Geotextiles and Geomembranes (Impact Factor 2.159), Materials and Design (Impact Factor 2.913), Composites Part B (Impact Factor 2.143), and Polymer Composites (Impact Factor 1.482). He presented a paper entitled "Mechanical properties of hybrid needle-punched nonwoven geotextiles" from his PhD work in 5th International Technical Textiles Congress held in Izmir, Turkey on 7-9 November 2012 and subsequently he also worked (as a part of PhD work) on the fabrication and testing of natural fibre reinforced nonwoven composites in the Textile Engineering Department of Erciyes University, Kayseri, Turkey under the supervision of Professor Dr. Levent Önal of this university from 11 November 2012 to 2 December 2012. He has also been awarded an EDANA student grant from EDANA

(European based Nonwoven Association), Belgium to present his poster entitled "Mechanical properties of Jute/Polypropylene needle-punched nonwoven geotextiles" in Nonwoven Innovation Academy (NIA) 2013 conference held in CETI, Tourcoing, Lille, France on 27-28 November 2013. This prestigious student award consists of his travel, accommodation, living expenses as well as his registration fee for the Nonwoven Innovation Academy 2013 conference. From his M Tech dissertation, a best paper award was received from ATIRA Foundation, Ahmedabad, India in 2001 for the paper entitled "Influence of yarn structure, sizing ingredients and manner of sizing on physical properties of sized yarn and its weavability. Part II: Yarn structure and Weavability" published in 42nd Joint Technological conference (A Joint publication of ATIRA, BTRA, SITRA and NITRA). In personal life, he is married and blessed with one son and one daughter.

Jute Market Report (TK.):

Raw jute	October 2013		November 2013		December 2013	
	Per 100 kg	Per 40 kg	Per 100 kg	Per 40 kg	Per 100 kg	Per 40 kg
White Top	5625	2250	5625	2250	5625	2250
Tossa Top	5750	2300	5750	2300	5750	2300
Meshta Top	5625	2250	5625	2250	5625	2250
White Mid	5375	2150	5375	2150	5375	2150
Tossa Mid	5500	2200	5500	2200	5500	2200
Meshta Mid	5375	2150	5375	2150	5375	2150
White B. Bottom	5125	2050	5125	2050	5125	2050
Tossa B. Bottom	5250	2100	5250	2100	5250	2100
Meshta B. Bottom	5125	2050	5125	2050	5125	2050
White C. Bottom	4500	1800	4500	1800	4500	1800
Tossa C. Bottom	4625	1850	4625	1850	4625	1850
Mishta C. Bottom	4500	1800	4500	1800	4500	1800
White X. Bottom	4150	1650	4125	1650	4125	1650
Tossa X. Bottom	4250	1700	4250	1700	4250	1700
Meshta X. Bottom	4125	1650	4125	1650	4125	1650

Source: BJA (Bangladesh Jute Association, Narayanganj), Per 100 kg = 1 Quintal, Per Md. = 37.324 kg

Subscription rate per year

Bangladesh	Tk.	100.00
Asia	\$	15.00
Europe	\$	18.00
Africa	\$	18.00
America	\$	20.00
Australia	\$	20.00

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