APPENDIX - I

QUESTIONNAIRE TO EVALUATE THE HAND OF SOFTENED BANANA FIBERS

***Title of the Study*: Banana fiber to fabric: Process optimization for improving its spinnability and hand**

Amrita Doshi
Researcher

Prof. Anjali Karolia
Guide

Kindly give your order of preference (Rank 1 – 3) for soft feel of the banana fibers, which will be send for spinning.

Sr. No.	Name	Designation	Order of Rank				
			I	II	III	IV	V
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Thank you

APPENDIX - II

QUESTIONNAIRE TO EVALUATE THE MARKET ACCEPTANCE OF CONSTRUCTED BANANA FABRICS

OPINION SCHEDULE

Dear Respondent,

The undersigned is a research scholar in the Department of Clothing and Textiles, The Maharaja Sayajirao University of Baroda, Vadodara. Title of the research work is "Banana fiber to fabric: Process optimization for improving its spinnability and hand".

Banana fibers, one of the minor, cellulosic, vegetable fibers can be obtained from the pseudostem of banana plant. The pseudostems are normally discarded as biomass after harvesting the fruit. In the present study banana fibers have been treated with enzymes and chemicals for softening the fibers. Various types of yarns have been spun using the banana fibers and its blends. Various types of plain weave fabrics have been prepared using these banana yarns as weft. Specifications of 11 specimen fabrics are given in the Table 1.

Fabric specimens are displayed in the swatch file for aesthetic and handle test. Kindly give your opinion regarding the fabrics by filling this questionnaire.

Look forward for your kind co-operation.

Thanking you,

Amrita Doshi
BSR-SRF

Prof. Anjali Karolia
Guide & Head
Department of Clothing and Textiles
Faculty of Family and Community Sciences
The Maharaja Sayajirao University of Baroda
Vadodara

Respondent's Background Information

Name :
Age :
Gender :
Educational Qualification :
Profession :
Institute/ Industry affiliated to:
Contact Details :

Appendix

Table 1: Fabric Specifications

Fabric Code	Type of Treatment	Mode of Spinning Banana yarn	Warp	Weft	Weft yarn Count	Mode of Weaving	GSM
Fabric A	Chemical	Ring spinning Machine	Viscose	75/25 Viscose / Chemical Treated Banana	8.1's	Power-loom	297
Fabric B	Chemical	Ring spinning Machine	Modal	75/25 Modal / Chemical Treated Banana	8.13's	Power-loom	242
Fabric C	Chemical	Ring spinning Machine	Excel	75/25 Excel / Chemical Treated Banana	16's	Power-loom	260
Fabric D	Enzyme	Ring spinning Machine	Viscose	75/25 Viscose / Enzyme Treated Banana	7's	Power-loom	258
Fabric E	Raw	Jute Spinning System	Cotton	100% Banana (Raw)	1.34's	Hand-loom	435
Fabric F	Enzyme treatment on Fabric	Jute Spinning System	Cotton	100% Banana (Raw)	1.34's	Hand-loom Fabric treated with Enzymes	384
Fabric G	Chemical treatment on Fabric	Jute Spinning System	Cotton	100% Banana (Raw)	1.34's	Hand-loom Fabric treated with Chemicals	341
Fabric H	Raw	Phoniex Charkha	Cotton	100% Banana (Raw)	3.1's	Hand-loom	287
Fabric I	Enzyme	Phoniex Charkha	Cotton	100% Banana (Enzyme Treated)	3.2's	Hand-loom	218
Fabric J	Chemical	Phoniex Charkha	Cotton	100% Banana (Chemical Treated)	11's	Hand-loom	164

QUESTIONAIRE

Q1. Have you seen minor fiber fabrics earlier in any of these applications?

a. Apparels Yes No

b. Home Furnishings Yes No

c. Non-woven Yes No

Q2. If yes, mention the details.

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.....

Q3. Did you like the aesthetics of banana fabrics?

Yes No

Q4. Do you like the handle (feel) of the banana fabrics?

Yes No

Q5. Will these fabrics be suitable for niche market?

Yes No

Q6. Does the physical appearances of the banana fabrics, remind you of any other fabrics?

Yes No

Q7. If yes, kindly mention.....

Q8. Have you seen spun banana yarn before?

Yes No

Q9. If yes, mention where you have seen and how that was different from these yarns.

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Q10. In case of banana blended yarns with regenerated fibers, the resultant share of the banana union fabric is about 12%. Is this an acceptable ratio as inception banana blend fabrics?

Yes No

Q11. Do you think that these fabrics would be commercially viable?

Yes No

Q12. If banana fabrics are as expensive as Linen, would you prefer buying them?

Yes No

Q13. If the supply of fibers is regular, do you think banana fabrics can get into regular production for commercial use?

Yes No

Q14. Do you think that constructing the banana blends can be an interesting project for the government scheme of Start up India?

Yes No

Q15. Which treatment is more effective for banana fibers?

a. Enzymes b. Chemicals

Q16. Treatment is more effective at which stage?

a. Fiber stage b. Fabric stage

Q17. Which spinning method is more effective?

a. Hand spinning b. Charkha spinning c. Jute spinning system

Q18. Kindly rank your order of preference for hand spun and handloom woven fabrics

Sr.No:	Fabric Code	Order of Preference
1	Fabric H	
2	Fabric I	
3	Fabric J	

Q19 Kindly rank your order of preference for fabrics made on Jute spinning system

Sr.No:	Fabric Code	Order of Preference
1	Fabric E	
2	Fabric F	
3	Fabric G	

Q20 Kindly rank your order of preference for machine spun and powerloom fabrics

Sr.No:	Fabric Code	Order of Preference
1	Fabric A	
2	Fabric B	
3	Fabric C	
4	Fabric D	

Q21. Kindly rank your order of preference for all the banana fabrics

Sr.No:	Fabric Code	Order of Preference
1	Fabric A	
2	Fabric B	
3	Fabric C	
4	Fabric D	
5	Fabric E	
6	Fabric F	
7	Fabric G	
8	Fabric H	
9	Fabric I	
10	Fabric J	

Thank you for sparing your precious time