Appendices

APPENDIX – I

CONFIRMATION CERTIFICATE FOR THE PLANT

Agave americana

भारत सरकार / GOVERNMENT OF INDIA
पर्यावरण एवं वन मंत्रालय / MINISTRY OF ENVIRONMENT & FORESTS
भारतीय वनस्पति सर्वेक्षण /BOTANICAL SURVEY OF INDIA

दक्षिणी परिक्षेत्र / Southern Regional Centre
टी.एन.ए.यू. कैम्पस / T.N.A.U. Campus
लाउली रोड / Lawley Road
कोयम्बटूर / Coimbatore - 641 003

टेलीफोन / Phone: 0422-2432788, 2432123, 2432487
टेलीफैक्स / Telefax: 0422- 2432835
E-mail id: sc@bsi.gov.in
bsisc@rediffmail.com

सं. भावस/ दप
No. BSI/SRC/5/23/09-10/Tech. 1593

दिनांक/Date: 19 February 2010

सेवा में/ To

Ms. R. Sunitha,
Lecturer,
Dept. of Textiles and Clothing,
Avinashilingam University for Women,
Coimbatore - 43.

महोदय/Madam,

The plant specimen brought for identification is identified as *Agave americana* L. – AGAVACEAE.

धन्यवाद/Thanking you,

भवदीय/Yours faithfully,

19/II/10

(Dr. V. SAMPATH KUMAR)

Scientist – C (I/C)

APPENDIX – 7

INTERVIEW SCHEDULE TO ELICIT INFORMATION REGARDING AWARENESS OF MULCHING AMONG FARMERS IN SELECTED AREAS

1. Name of the farmers :
2. Age :
3. Residential Address :
4. Religion, Caste and Community :
5. Family size :
6. Educational qualification :
7. Sources of income to family :
8. Location of farm :
9. Extent of farm :

   Dry land area ☐ Irrigated area ☐
10. Income per annum :
11. Crops grown

    Inter crops ☐ Moisture conservation methods ☐
12. Soil

    Soil type ☐ Soil health obtained ☐
13. Irrigation method adopted Yes / No.

    Micro irrigation ☐ Surface irrigation ☐
14. Type of fertilizer application :
15. Weed management methods adopted

    Mechanical ☐ Manual ☐ Chemical ☐ Biological ☐ Any other ☐
16. Common weeds found in farm :
17. Frequency of weeding :
18. Problems caused by weeds :
19. Do you utilize any mulching Technique in your farm?

    ☐ Yes ☐ No

    If yes, what method do you use?
20. What are the benefits mulching?
21. What do you know about polythene mulches?
22. What are the advantages and disadvantages of polythene mulches?
22. How much do you spend for weed control in your farm per acre for a year?
23. Are you satisfied with the method adopted by you for weed control?

    ☐ Yes ☐ No

    If not why?
24. Do you have any idea about natural mulching products?
25. If a natural product is introduced in the market will it be useful to you?

    ☐ Yes ☐ No

    If yes, how?

APPENDIX – 8

8a. PHYSICAL AND CHEMICAL PROPERTIES OF SOIL

S.No.	Soil Properties	Red soil
1	Electrical conductivity (mScm)	1.92
2	pH	8.1
3	Bulk Density (Core cutter method – g/cc)	1.81
4	Texture (USDA texture Classification Chart)	Sandy Clay Loam
5	Field Capacity (Pressure plate apparatus)	35.45 %
6	Permanent Wilting Point	15.93 %

8b. QUALITY PARAMETERS OF WATER USED FOR IRRIGATION

S.No.	Quality Parameters	Values
1	pH.	7.11
2	Electrical Conductivity (ds/m)	4.23
3	Calcium	7.04
4	Magnesium (meq/l)	15.20
5	Sodium	17.90
6	Potassium	0.36
7	Carbonate	00
8	Bicarbonate	12.80
9	Chloride	24.00
10	Sodium absorption ratio (SAR)	5.37
11	Adjusted SAR	17.70
12	Residual sodium carbonate (RSC)	-9.44
13	Ca/Mg Ratio	0.46

APPENDIX – 9

PROPERTIES OF MEDIA USED FOR FILTRATION

S.No.	Filter media	EC (mS/cm)	pH	Bulk density (kg/m^3)	Specific gravity
1.	Sand	0.0597	6.6	1491.619	1.492
2.	Gravel	0.042	7.1	1406	1.406
3.	Charcoal	0.344	7.8	275.4286	0.275
6.	*Agave americana* fibres	0.458	6.5	1273	1.10
7.	Jute fibres	1.406	6.7	1358	1.030
8.	Coir fibres	0.775	6.5	1150	1.15
9.	Hemp fibres	1.74	6.6	1503	0.7-1.55

APPENDIX – 10

RECIPE OF DOSED WATER

Materials	I	II	III
Sand (g / lit)	0.5	5	10
Silt (g / lit)	0.5	5	10
Super phosphate (g / lit)	0.05	0.5	1
Urea (g / lit)	0.05	0.5	1
K_2O (g / lit)	0.05	0.5	1

APPENDIX – 11

PROFORMA USED FOR VISUAL ASSESSMENT OF ORIGINAL AND TREATED YARN SAMPLES

S.No.	Sample	Aspects in Percentage											
		General Appearance			Colour			Lustre			Texture		
		Good	Fair	Poor	Bright	Medium	Dull	Good	Fair	Poor	Soft	Coarse	Very Coarse
1	AO												
2	AS												
3	AB												
4	HO												
5	HS												
6	HB												
7	JO												
8	JS												
9	JB												

APPENDIX – 12a.

PROFORMA USED FOR OBTAINING JUDGES' SUGGESTIONS FOR PRODUCT PREFERENCE OF WOVEN STRUCTURES

S.No.	Sample	Apparel	Curtains	Table Linens		Floor Coverings	Accessories	Package Goods
				Place Mats	Runners			
1	AA							
2	AJ							
3	AH							
4	JA							
5	HA							
6	AC							
7	CA							
8	CAR							

APPENDIX – 12b.

PROFORMA USED FOR VISUAL EVALUATION OF SOIL BURIED FABRIC SAMPLES

S.No.	Samples		Aspects in Percentage														
			General Appearance			Colour			Lustre			Texture			Black Spots		
			Good	Fair	Poor	Bright	Medium	Dull	High	Moderate	Low	Coarse and Hard	Soft	Very Soft	Many	Little	Very Littie
1	AA	O															
		W															
2	AJ	O															
		W															
3	JA	O															
		W															
4	AH	O															
		W															
5	HA	O															
		W															
6	AC	O															
		W															
7	CA	O															
		W															
8	AAN	O															
		W															
9	AJN	O															
		W															
10	AHN	O															
		W															

* The same proforma was used to evaluate the fabric samples laid as mulching sheet.

APPENDIX – 13a.

COMPOSITION OF NUTRIENT AGAR MEDIUM

S.No.	Composition	Grams/litre
1	Peptone	5.0
2	Beef Extract	3.0
3	Nacl	5.0
4	Agar	15.0
5	pH	7.0+/- 0.1

APPENDIX – 13b.

COMPOSITION OF CHLOROMPHENICOL AGAR MEDIUM

S.No.	Composition	Grams/litre
1	Dextrose	10.0
2	Peptone	5.0
3	$MgSo_4 7H_2o$	0.5
4	KH_2Po_4	1.0
5	Rose Bengal	0.05
6	ChloramPhenicol	0.03
7	Agar	15.0
8	pH	7.0+/-0.1

APPENDIX – 14a.

PROFORMA USED FOR VISUAL EVALUATION OF ORIGINAL AND TREATED RIBBED WOVEN FABRIC SAMPLES

S.No.	Samples	Aspects in Percentage											
		General appearance			Colour			Lustre			Texture		
		Good	Fair	Poor	Bright	Medium	Dull	Good	Fair	Poor	Soft	Coarse	Very coarse
1	CAR												
2	CARS												
3	CARSB												

APPENDIX – 14b.

PROFORMA USED FOR VISUAL EVALUATION OF LAC DYED, FRAGRANT FINISHED AND WEAR STUDIED SAMPLES

S.No.	Sample	Aspects in Percentage															
		Evenness in dye		Brilliancy of colour			Texture			Lustre			General Appearance			Fragrance		
		Even	Uneven	Very bright	Bright	Dull	Smooth	Medium	Rough	High	Medium	Low	Good	Fair	Poor	High	Medium	Low
1.	CARSBBL																	
2.	CARSBBLF																	
3.	CARSBBLFW																	

APPENDIX – 14c.

PROFORMA TO ELICIT THE INFORMATION FROM THE WEARERS ABOUT AGAVE COTTON OVER COAT

S.No.	Wash details	Feedbacks (%)											
		Comfort			Stiffness			Warmth			Fragrance		
		High	Moderate	Low	High	Moderate	Low	High	Moderate	Low	High	Moderate	Low
1	Before wash												
2	After 1st Wash												
3	After 2nd Wash												
4	After 3rd Wash												
5	After 4th Wash												
6	After 5th Wash												
7	After 6th Wash												
8	After 7th Wash												
9	After 8th Wash												
10	After 9th Wash												
11	After 10th Wash												

APPENDIX – 14d.

PROFORMA USED FOR VISUAL EVALUATION OF DYED AND WEAR STUDIED SAMPLES

S.No.	Sample	Aspects in percentage													
		General Appearance			Brilliancy of colours			Lustre			Texture			Evenness in dye	
		Good	Fair	Poor	Very bright	Bright	Dull	High	Medium	Low	Smooth	Medium	Rough	Even	Uneven
1.	CARSBBM														
2.	CARSBBMW														
3.	CASBBC														
4.	CASBBCW														

APPENDIX – 15

WEATHER DATA DURING THE CROPPING PERIOD

Agro Climate Research Centre, TNAU, CBE-3.
Weather data for the Month of February 2010

Date	Max	Min	RH2	RF
21.02.2010	34.8	20.5	32	0.0
22.02.2010	34.6	22.3	31	0.0
23.02.2010	35.4	22.4	28	0.0
24.02.2010	35.0	21.2	42	0.0
25.02.2010	34.4	22.8	40	0.0
26.02.2010	35.0	24.0	37	0.0
27.02.2010	34.8	24.0	27	0.0
28.02.2010	35.2	23.0	21	0.0

V. G... 24/5/2010

Professor & Head
Agro Climate Research Centre
Tamil Nadu Agricultural University
COIMBATORE-641 003.

Agro Climate Research Centre, TNAU, CBE-3.
Weather data for the Month of February 2010

Date	Max	Min	RH2	RF
01.03.2010	35.2	19.0	18.0	0.0
02.03.2010	34.8	20.0	17.0	0.0
03.03.2010	34.3	18.4	20.0	0.0
04.03.2010	35.6	17.8	28.0	0.0
05.03.2010	35.5	21.4	35.0	0.0
06.03.2010	35.4	21.8	40.0	0.0
07.03.2010	34.8	22.8	39.0	0.0
08.03.2010	35.5	23.8	32.0	0.0
09.03.2010	36.7	23.5	23.0	0.0
10.03.2010	36.6	24.0	32.0	0.0
11.03.2010	35.0	24.0	30.0	0.0
12.03.2010	34.5	23.8	29.0	0.0
13.03.2010	34.2	24.0	37.0	0.0
14.03.2010	33.4	22.5	28.0	0.0
15.03.2010	36.2	22.4	24.0	0.0
16.03.2010	37.3	24.0	22.0	0.0
17.03.2010	36.5	24.0	22.0	0.0
18.03.2010	35.0	22.5	25.0	0.0
19.03.2010	35.0	20.2	28.0	0.0
20.03.2010	35.0	20.6	19.0	0.0
21.03.2010	36.4	20.2	16.0	0.0
22.03.2010	37.0	18.5	9.3	0.0
23.03.2010	37.0	19.0	17.0	0.0
24.03.2010	36.6	21.6	36.0	0.0
25.03.2010	36.4	22.2	30.0	0.0
26.03.2010	36.5	23.2	37.0	0.0
27.03.2010	35.6	24.0	39.0	0.0
28.03.2010	35.8	23.8	40.0	0.0
29.03.2010	35.6	25.0	43.0	0.0
30.03.2010	35.6	24.0	43.0	0.0
31.03.2010	36.0	26.0	46.0	0.0

V. G... 24/5/2010

Professor & Head
Agro Climate Research Centre
Tamil Nadu Agricultural University
COIMBATORE-641 003.

Agro Climate Research Centre, TNAU, CBE-3.
Weather data for the Month of February 2010

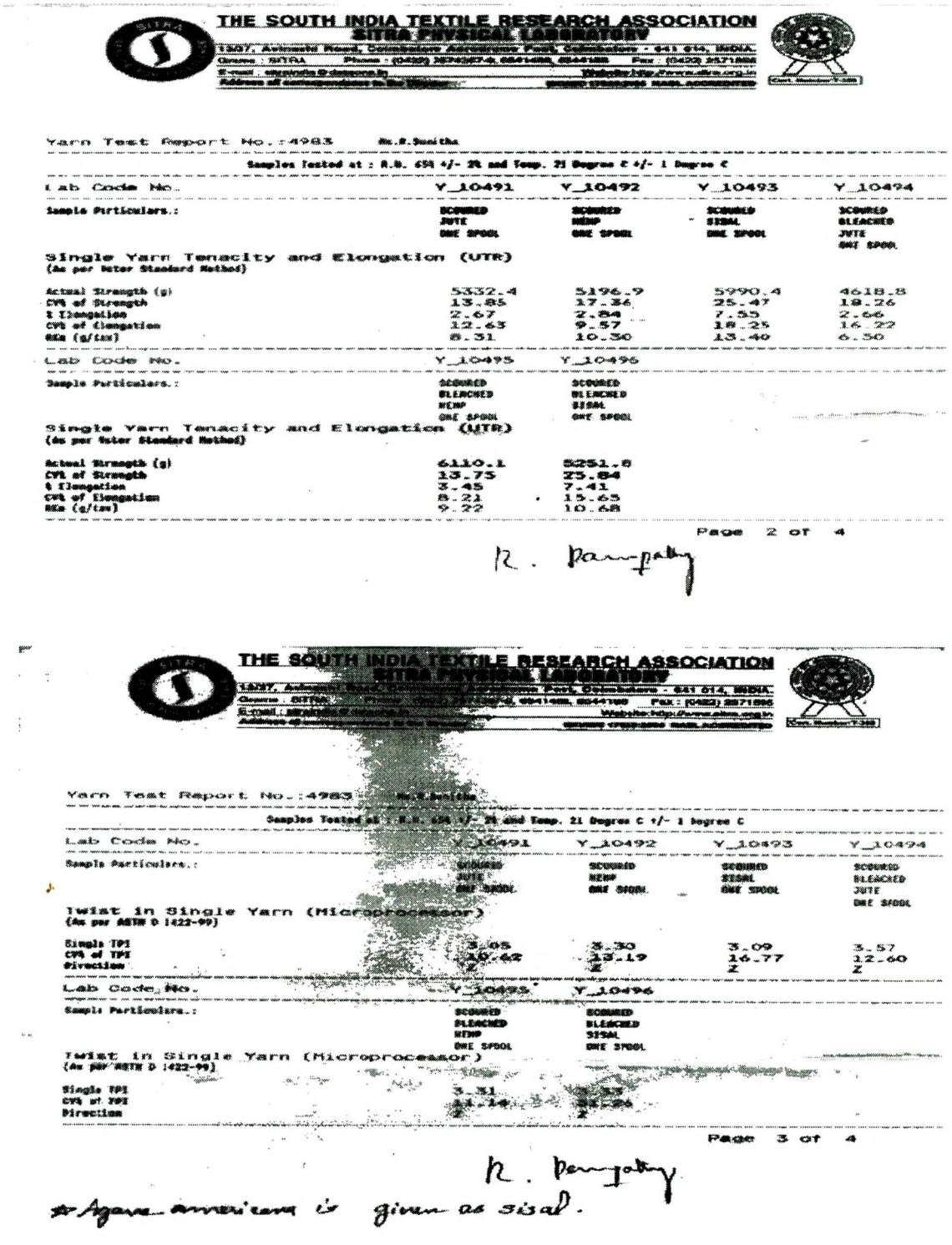
Date	Max	Min	RH2	RF
01.04.2010	36.0	23.5	36	0.0
02.04.2010	36.2	25.0	41	0.0
03.04.2010	37.0	26.0	49	0.0
04.04.2010	36.7	24.6	31	0.0
05.04.2010	37.0	25.6	25	0.0
06.04.2010	37.3	25.2	31	0.0
07.04.2010	37.6	25.6	29	0.0
08.04.2010	37.6	27.2	78	0.0
09.04.2010	34.0	24.0	34	2.4
10.04.2010	37.0	24.2	37	0.0
11.04.2010	37.5	24.7	30	0.0
12.04.2010	39.4	26.4	33	0.0
13.04.2010	37.4	26.2	39	0.0
14.04.2010	37.4	23.4	48	5.6
15.04.2010	35.4	25.2	40	0.0
16.04.2010	36.8	26.8	34	0.0
17.04.2010	37.5	26.0	47	0.0
18.04.2010	37.0	23.8	47	6.2
19.04.2010	34.8	24.5	48	0.0
20.04.2010	35.0	25.0	47	0.0
21.04.2010	36.0	24.5	46	0.0
22.04.2010	35.6	25.8	51	0.0
23.04.2010	35.8	24.8	48	0.2
24.04.2010	37.4	26.2	48	0.0
25.04.2010	37.0	25.2	42	0.0
26.04.2010	35.8	26	42	0.2
27.04.2010	36.0	26.0	44.0	0.0
28.04.2010	36.8	25.0	48.0	0.0

V. G... 24/5/2010.

Professor & Head
Agro Climate Research Centre
Tamil Nadu Agricultural University
COIMBATORE-641 003.

APPENDIX – 16

YARN TEST RESULTS – I



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION
SITRA PHYSICAL LABORATORY

Yarn Test Report No.:4983 Mr.R.Sunitha

Samples Tested at : R.H. 65% +/- 2% and Temp. 21 Degree C +/- 1 Degree C

Lab Code No.	Y_10491	Y_10492	Y_10493	Y_10494
Sample Particulars.:	SCOURED JUTE ONE SPOOL	SCOURED HEMP ONE SPOOL	SCOURED SISAL ONE SPOOL	SCOURED BLEACHED JUTE ONE SPOOL
Single Yarn Tenacity and Elongation (UTR) (As per Uster Standard Method)				
Actual Strength (g)	5332.4	5196.9	5990.4	4618.8
CV% of Strength	13.85	17.36	25.47	18.26
% Elongation	2.67	2.84	7.55	2.66
CV% of Elongation	12.63	9.57	18.25	16.22
RKm (g/tex)	8.31	10.30	13.40	6.50

Lab Code No.	Y_10495	Y_10496
Sample Particulars.:	SCOURED BLEACHED HEMP ONE SPOOL	SCOURED BLEACHED SISAL ONE SPOOL
Single Yarn Tenacity and Elongation (UTR) (As per Uster Standard Method)		
Actual Strength (g)	6110.1	5251.8
CV% of Strength	13.75	25.84
% Elongation	3.45	7.41
CV% of Elongation	8.21	15.65
RKm (g/tex)	9.22	10.68

Page 2 of 4

R. Ramyatthy

THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION
SITRA PHYSICAL LABORATORY

Yarn Test Report No.:4983 Mr.R.Sunitha

Samples Tested at : R.H. 65% +/- 2% and Temp. 21 Degree C +/- 1 Degree C

Lab Code No.	Y_10491	Y_10492	Y_10493	Y_10494
Sample Particulars.:	SCOURED JUTE ONE SPOOL	SCOURED HEMP ONE SPOOL	SCOURED SISAL ONE SPOOL	SCOURED BLEACHED JUTE ONE SPOOL
Twist in Single Yarn (Microprocessor) (As per ASTM D 1422-99)				
Single TPI	3.05	3.30	3.09	3.57
CV% of TPI	10.62	12.19	16.77	12.60
Direction	Z	Z	Z	Z

Lab Code No.	Y_10493	Y_10496
Sample Particulars.:	SCOURED BLEACHED HEMP ONE SPOOL	SCOURED BLEACHED SISAL ONE SPOOL
Twist in Single Yarn (Microprocessor) (As per ASTM D 1422-99)		
Single TPI	3.31	3.57
CV% of TPI	14.14	24.26
Direction	Z	Z

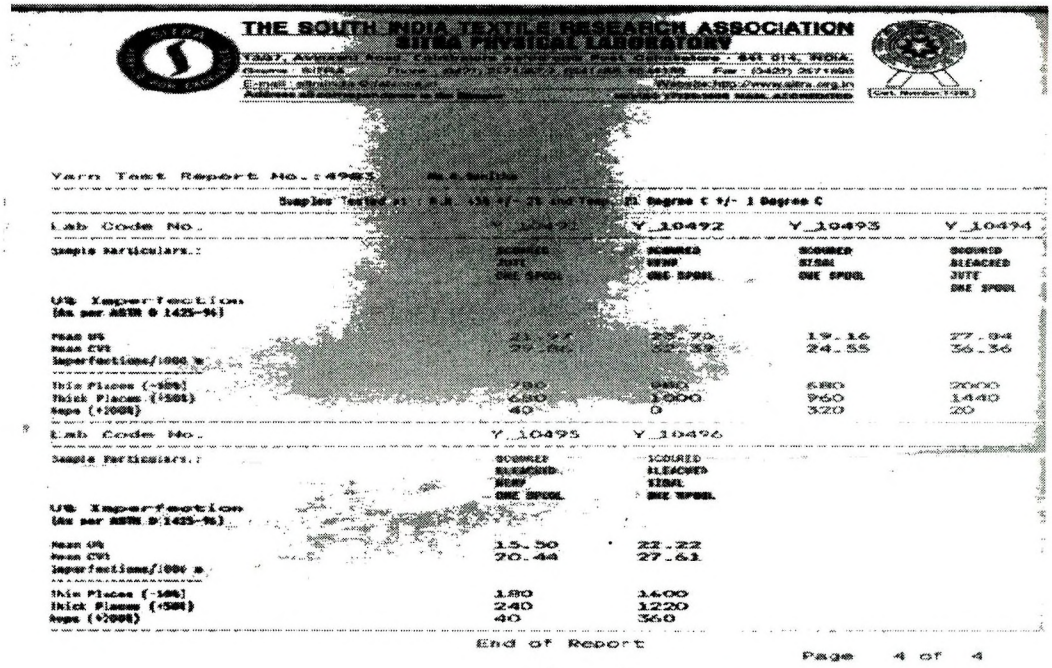
Page 3 of 4

R. Ramyatthy

* Agave americana is given as sisal.

APPENDIX – 17

YARN TEST RESULTS – II



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION
SITRA PHYSICAL LABORATORY

Yarn Test Report No.:4983

Samples Tested At : R.H. 65% +/- 2% and Temp. 21 Degree C +/- 1 Degree C

Lab Code No.	Y_10491	Y_10492	Y_10493	Y_10494
Sample Particulars.:	SCOURED JUTE ONE SPOOL	SCOURED HEMP ONE SPOOL	SCOURED SISAL ONE SPOOL	SCOURED BLEACHED JUTE ONE SPOOL
U% Imperfection (As per ASTM D 1425-96)				
Mean U%	21.27	22.70	19.16	27.84
Mean CV%	30.80	32.39	24.55	36.36
Imperfections/1000 m				
Thin Places (-50%)	780	980	680	2000
Thick Places (+50%)	680	1000	960	1440
Neps (+200%)	40	0	320	20

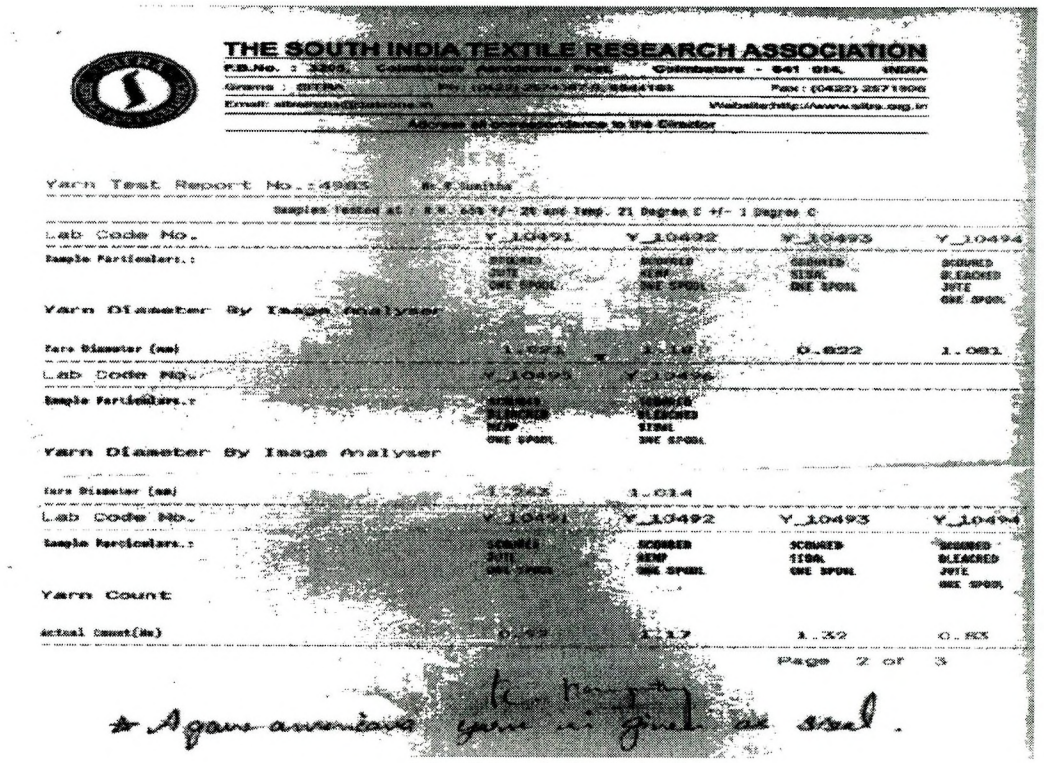
Lab Code No.	Y_10495	Y_10496
Sample Particulars.:	SCOURED BLEACHED HEMP ONE SPOOL	SCOURED BLEACHED SISAL ONE SPOOL
U% Imperfection (As per ASTM D 1425-96)		
Mean U%	15.50	22.22
Mean CV%	20.44	27.61
Imperfections/1000 m		
Thin Places (-50%)	180	1400
Thick Places (+50%)	240	1220
Neps (+200%)	40	360

End of Report

Page 4 of 4

* Agave americana yarn is given as sisal.

R. Ramya



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

Yarn Test Report No.:4983

Samples Tested At : R.H. 65% +/- 2% and Temp. 21 Degree C +/- 1 Degree C

Lab Code No.	Y_10491	Y_10492	Y_10493	Y_10494
Sample Particulars.:	SCOURED JUTE ONE SPOOL	SCOURED HEMP ONE SPOOL	SCOURED SISAL ONE SPOOL	SCOURED BLEACHED JUTE ONE SPOOL
Yarn Diameter By Image Analyser				
Yarn Diameter (mm)	1.024	1.114	0.822	1.081

Lab Code No.	Y_10495	Y_10496
Sample Particulars.:	SCOURED BLEACHED HEMP ONE SPOOL	SCOURED BLEACHED SISAL ONE SPOOL
Yarn Diameter By Image Analyser		
Yarn Diameter (mm)	1.263	1.014

Lab Code No.	Y_10491	Y_10492	Y_10493	Y_10494
Sample Particulars.:	SCOURED JUTE ONE SPOOL	SCOURED HEMP ONE SPOOL	SCOURED SISAL ONE SPOOL	SCOURED BLEACHED JUTE ONE SPOOL
Yarn Count				
Actual Count(Nm)	0.49	1.17	1.32	0.85

Page 2 of 3

* Agave americana yarn is given as sisal.

R. Ramya

APPENDIX – 19

RESULTS FOR GEO TEXTILE TESTS OF

HEMP-*Agave americana* FABRIC STRUCTURE

THE BOMBAY TEXTILE RESEARCH ASSOCIATION
LAL BAHADUR SHASTRI MARG,
GHATKOPAR (WEST),
MUMBAI - 400 086.

Phones : 022 - 2500 1811
022 - 25003651 / 2652
2117 / 1119 / 1135
Fax : 91-22-2500 0459
Email : btra@vsnl.com
btralabs@yahoo.co.in
Website: www.btraindia.com

BTRA TEST LABORATORIES

BL / 03A
Analysis & Testing of All Textile Materials Including Eco Testing, Trouble Shooting for Providing Complete Solutions

TEST REPORT

Report Details : BTL/TR/ 932 /2011 DTD 17.03.2011
Sample : WOVEN FABRIC

Customer : M/s SUNITHA RAGHUNATHAN
Reference : C/o. Dr.G.Krishnabai, Ph.D. Scholar, Avinashilingam Deemed University for Women, Combatore 43
E-Mail DTD : 16.02.2011
Code : BL/TT/115
No. of Samples : ONE
Total Pages : 1 OF 1
Received on : DTD : 25.02.2011
Date of performance of Test : 14.03.2011
Despatched on :

TEST RESULTS

SAMPLE NO.	:	BL/TT/115
SAMPLE MARK	:	JUTE WOVEN FABRIC

SR NO.	TEST PARAMETERS	RESULTS	METHOD OF TEST
1.	Mass, (g/m^2)	567.6	ASTM D: 5261: 2009
2.	Thickness, (mm) (Pressure : 2 kPa)	2.67	ASTM D: 5199: 2006
3.	Trapezoid Tear Strength, (N)		ASTM D: 4533–2004
	Warp Direction	225.8	
	Weft Direction	484.4	
4.	Wide Width Tensile Strength, (kN/m)		ASTM D: 2599–2009
	Warp Direction	11.4	
	Weft Direction	35.2	

(D G Thombare)
Laboratory Officer
BTRA Test Laboratories

(1/TR/932 – 17.03.2011)

Samples are not drawn by the Laboratory.
The test results relate only to the item tested.
This report shall not be reproduced except in full without prior permission of this Laboratory.
This report shall not be used for litigation or publicity.

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THE BOMBAY TEXTILE RESEARCH ASSOCIATION
LAL BAHADUR SHASTRI MARG,
GHATKOPAR (WEST),
MUMBAI - 400 086.

Phones : 022 - 2500 1811
022 - 25003651 / 2652
2117 / 1119 / 1135
Fax : 91-22-2500 0459
Email : btra@vsnl.com
btralabs@yahoo.co.in
Website: www.btraindia.com

BTRA TEST LABORATORIES

BL / 03A
Analysis & Testing of All Textile Materials Including Eco Testing, Trouble Shooting for Providing Complete Solutions

TEST REPORT

Report Details : BTL/TR/ 286 /2011 DT.: 25.01.2011
Sample : FABRIC

Customer : Ms. R. SUNITHA
c/o Dr. G. Krishnabai, PhD Scholar, Avinashilingam Deemed University for Women, Coimbatore-43.
Reference : LETTER DTD : 29.12.2010
Code : BL/TT/09 to 15
No. of Samples : SEVEN
Total Pages : 1 OF 1
Received on : DTD. : 11.01.2011
Date of performance of Test : 19.01.2011 to 24.01.2011.
Despatched on :

TEST RESULTS

SAMPLE NO.	:	BL/TT/ 09	BL/TT/ 10	BL/TT/ 11	BL/TT/ 12	BL/TT/ 13	BL/TT/ 14	BL/TT/ 15
SAMPLE MARK	:	100 % Agave		Agave-Jute		Agave-Hemp		Agave-Coir
		Woven	Non-Woven	Woven	Non-Woven	Woven	Non-Woven	Non-Woven

SR. NO.	TEST PARAMETERS	RESULTS						
1	Cone Drop Test (Hole Dia. in mm) [ISO: 13433: 2006]	7.6	7.2	8.8	*	8.8	21 @	15.3 #

* No puncture takes place, instead damaging near clamps (wearing out).

@ Avg. value for two specimens. Complete puncture for remaining specimens.

Avg. value for three specimens. Complete puncture for remaining specimens.

(D G. Thombare)
Laboratory Officer
BTRA Test Laboratories

(2/TR/ 286 – 25.01.2011)

Samples are not drawn by the Laboratory.
The test results relate only to the item tested.
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AVAIL SERVICES OF BTRA FOR TOTAL SOLUTIONS.

APPENDIX – 20

ECONOMICS OF WOVEN AND NONWOVEN FABRIC STRUCTURES

Details	Cost of fabric (Rs.)		
	Agave americana	**Jute**	**Hemp**
WOVEN FABRIC			
Fibre extraction (cost per kg) (Diesel, Labour – Cutting and beating leaves)	50	30	35
Yarn production (cost per kg) (Oil and labour – Combing)	125	30	35
Fabric production (cost per metre) (Weaving labour)	100	75	75
Total	**275**	**135**	**145**
• **Estimated Cost of woven fabric** • **100% *Agave americana* fabric** • ***Agave americana* and jute mixture** • ***Agave americana* and hemp mixture**	 **Rs. 275/-** **Rs. 205/-** **Rs. 210/-**		
NONWOVEN FABRIC			
Fibre extraction (cost per kg)	50	30	35
Fabric production (cost per metre)	75	75	75
Total	**125**	**105**	**110**
• **Estimated Cost of needle punched fabric** • **100% *Agave americana* fabric** • ***Agave americana* and Jute fabric** • ***Agave americana* and hemp fabric**	 **Rs. 125/-** **Rs.105/-** **Rs.110/-**		