

LIST OF TABLES

Table No.	Table Title	Page No.
2.1	Physical Properties of Jute Fibre	17
2.2	Woollenisation Vs. Mercerisation	19
2.3	Oxidizing bleaching agents	21
2.4	Classification of Bleaching agents	26
2.5	Classification of natural dyes according to the hue	32
2.6	Classification of natural dyes according to the origin	33
3.1	Specification of the dyes used	62
4.1	Results of physical properties of the standard sample	75
4.2	Colour Parameters for sample dyed with Madder using Alum as mordant	77
4.3	Colour Parameters for sample dyed with Madder using Copper Sulphate as mordant	77
4.4	Colour Parameters for sample dyed with Madder using Ferrous Sulphate as mordant	79
4.5	Colour Parameters of samples bleached with Sodium Hypochlorite dyed with Madder using different mordants	80
4.6	Colour Parameters of samples bleached with Hydrogen Peroxide dyed with Madder using different mordants	81
4.7	Colour Parameters of samples bleached with Peracetic Acid dyed with Madder using different mordants	82
4.8	Colour Parameters for sample dyed with Turmeric using Alum as mordant	84
4.9	Colour Parameters for sample dyed with Turmeric with Copper Sulphate as mordant	85
4.10	Colour Parameters for sample dyed with Turmeric with Ferrous Sulphate as mordant	85
4.11	Colour Parameters of samples bleached with Sodium Hypochlorite dyed with Turmeric using different mordants	86
4.12	Colour Parameters of samples bleached with Hydrogen Peroxide	87

	dyed with Turmeric using different mordants	
4.13	Colour Parameters of samples bleached with Peracetic Acid dyed with Turmeric using different mordants	88
4.14	Colour Parameters for sample dyed with Eucalyptus Leaves with Alum as mordant	90
4.15	Colour Parameters for sample dyed with Eucalyptus Leaves with Copper Sulphate as mordant	90
4.16	Colour Parameters for sample dyed with Eucalyptus Leaves with Ferrous Sulphate	91
4.17	Colour Parameters of samples bleached with Sodium Hypochlorite dyed with Eucalyptus leaves using different mordants	91
4.18	Colour Parameters of samples bleached with Hydrogen Peroxide dyed with Eucalyptus leaves using different mordants	92
4.19	Colour Parameters of samples bleached with Peracetic Acid dyed with Eucalyptus leaves using different mordants	93
4.20	Colour Parameters for sample dyed with Indian Almond Leaves with Alum as mordant	95
4.21	Colour Parameters for sample dyed with Indian Almond Leaves with Copper Sulphate as mordant	95
4.22	Colour Parameters for sample dyed with Indian Almond Leaves with Ferrous Sulphate as mordant	96
4.23	Colour Parameters of samples bleached with Sodium Hypochlorite dyed with Indian Almond leaves using different mordants	96
4.24	Colour Parameters of samples bleached with Hydrogen Peroxide dyed with Indian Almond leaves using different mordants	97
4.25	Colour Parameters of samples bleached with Peracetic Acid dyed with Indian Almond leaves using different mordants	98
4.26	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Madder using different mordants	99
4.27	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Turmeric using different mordants	101
4.28	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Eucalyptus Leaves using different mordants	102

4.29	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Indian Almond Leaves using different mordants	104
4.30	Results of optical indices of the samples bleached with Hydrogen Peroxide	107
4.31	Breaking Load and Elongation properties of jute fabric bleached with different concentration of Hydrogen Peroxide	108
4.32	Results of optical indices of the samples bleached with Peracetic acid	109
4.33	Breaking Load properties of jute fabric bleached with Peracetic acid	111
4.34	Results of optical indices of the samples bleached with three different bleaching agents	117
4.35	Colour Parameters for sample dyed with Madder using different mordants	120
4.36	Colour Parameters for sample dyed with Turmeric using different mordants	122
4.37	Colour Parameters for sample dyed with Eucalyptus leaves using different mordants	124
4.38	Colour Parameters for sample dyed with Indian Almond leaves using different mordants	126
4.39	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Madder using different mordant	128
4.40	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Turmeric using different mordants	130
4.41	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Eucalyptus Leaves using different mordants	131
4.42	Fastness rating of Jute samples bleached with the three bleaching agents dyed with Indian Almond Leaves using different mordants	132