

DEVELOPMENT OF SIMPLE PINEAPPLE LEAF FIBRE (PALF) EXTRACTION MACHINE, DYEING, CHARACTERIZATION AND THE COMMERCIAL OPPORTUNITY OF PALF IN BANGLADESH

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The demand of environment friendly fibre is increasing day by day. Pineapple leaf fibre (PALF) is a good source of environment friendly fibre but it is not well known in Bangladesh. Most of the people have no idea about this fibre. Pineapple plant is widely cultivated only for its delicious and fragrant fruit in tropical and subtropical regions of the world. The potentiality of the pineapple leaves, a major part of the pineapple plant which is presently practically unused needs global attention for its commercial importance. Extensive research work on PALF, an agro-waste reveals its immense potentiality in the field of textiles. Pineapple leaf fibre is more delicate in texture than any other vegetable fibre. The fibre possess silky luster, creamy color, finer than jute, good antibacterial and dyeing properties. The project outlines a new extraction method for extraction of PALF, discuss the properties of pineapple fibre, dyeing of pineapple fibre with reactive dye and basic dye, SWOT analysis of pineapple fibre on the context of Bangladesh, use of pineapple fibre for producing textile product, comparing the properties of pineapple fibre with other fibre and the development of commercial textile product which is economically viable and remunerative for the pineapple cultivators and entrepreneurs.

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