

Application of organic mosquito repellents finishes on cotton fabric

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■ **ABSTRACT** : As the consumers are now increasingly aware of the hygienic life style, there is a necessity and expectation of a wide range of economical and hygienic textile products. Control of mosquitoes is something of utmost importance in the present day with rising number of mosquito borne illnesses. In this research work, Natural base mosquito repellent was formulated successfully. Natural mosquito repellents fabrics may be one of the most effective tools for protecting human from vector borne diseases. In this direction a research is mainly carried out for the development of mosquito repellent finished cotton fabric using pomegranate peel extract. A series of experiment were conducted to optimize the concentration of pomegranate peel, concentration of pomegranate peel extract, concentration of mordant and dyeing time, on the basis of optical density and mosquito repellency test. After that dyed samples with pomegranate peel were mordanted with different concentration of citric acid for different time and tested for wash durability and mosquito repellency test and it was provides 80 per cent mosquito repellency.

■ **KEY WORDS**: Cotton fabrics, Pomegranate Peel, Wash durability, Mosquito repellency

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