
Cellulose Nano-whiskers from Cotton Fibres and Cotton Linters

<i>Salient features</i>	<ul style="list-style-type: none">➤ Novel materials, Nano-fibres and Nano-whiskers composites from cotton fibres and linters to enhance performance and applicability of biopolymers.➤ Use of composite biopolymer in food packaging, food coating, as carrier of anti-microbial agent and in drug delivery
<i>Advantages</i>	<ul style="list-style-type: none">✓ Better mechanical and thermal properties of biopolymers.
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<i>developed by</i>	Prof. U. S. Annapure, Department of Food Engg. & Tech., Institute of Chemical Technology, Nathalal Parekh Marg, Matunga, Mumbai.
<i>Year</i>	2013-14
<i>Source of funding</i>	MoFPI
<i>More information</i>	<p>Status of commercialization / Patent / Publication</p> <p>Karande, V., Bharimall, A.K., Vigneshwaran, N., Kadam, P.G. and Mhaske, S.T. 2014. Preparation of cellulose microfibril by mechanical process and its characterization, Iranian Journal.</p> <p>Savadekar, N.R., Karande, V.S., Vigneshwaran, N., Kadam, P.G. and Mhaske, S.T. 2014. Preparation of cotton linter nano-whiskers by high-pressure homogenization process and its application in thermoplastic starch. Applied Nanoscience.</p> <p>Karande, V.S., Bharimall, A.K., Vigneshwaran, N., Kadam, P.G. and Mhaske, S.T. 2014. Cotton linter nano-fibers as the potential reinforcing agent for guar gum. Iranian polymer journal.</p> <p><i>The technology is transferred to:</i></p> <p>M/s Vasundhara Chem. Plast, Survey no. 204/10(7), Hingraj Industrial Estate, Daman-396210.</p>