

Project Title - 1	Development of spunlace non – woven wound dressings using bamboo fibres
Principal Investigator	Dr.K.P.Chellamani
Cost	Rs.32.00 lakhs
Date of Commencement	January 2010
Duration	24 Months
Date of Completion	Dec-2011
Abstract	<p>The aim of this project is the development of wound dressing material using Bamboo fibres for the chronic wounds in human body.</p> <p>Since, the Bamboo fibres has inbuilt antibacterial property, the extent of the antibacterial agents used in dressings made out of fibers like Viscose can be minimised. Due to this, the wound dressing made up of Bamboo fibres will be a commercially viable proportion.</p> <p>Since the microbial growth will be lesser in dressings made out of Bamboo, the replacement period of wound dressing can be extended. Along with the Bamboo fibre activated charcoal can be added to act as odour absorbent layer.</p> <p>Hence, it is planned to develop the wound dressing material using Bamboo fibres, as an alternative to anti-bacterial and anti-odour (odour absorbent) wound dressing manufactured at present using fibres like Viscose, Cotton etc.</p> <p>The developmental work will be using the spun laced Non-woven technology available at SITRA (which was acquired recently).</p>
Highlights	<p>Development of wound dressing by using Bamboo fibres.</p> <p>Minimizing the bacterial growth in the wound area</p> <p>Reducing the unpleasant odour coming from the wound</p>
Area of applicability	Medical textile
Target beneficiaries	Patients with chronic wounds.
Status	Ongoing