



# PCR based Quality Estimation Technology for Purity of Pashmina Wool.

## Technology Description

The technology is PCR based protocol that has been developed to identify origin of animal fibre especially Pashmina in woolen products. Quality DNA has been extracted from animal fibres and their blended products. The technique is able to amplify Pashmina genes and sheep wool to identify the blend upto 10% level. It is a quality control tool to measure the purity and authentication of prepared garments made from pure Pashmina. It could be used for quality control inspectors of the State Departments and quality control wing of the industries.

Name Of institute: CSWRI Avikanagar  
Stage of development:  
Ready for commercialization  
Patent status: Filed

Scientific Experts:  
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## Background

Pashmina (cashmere) is well known for its fineness, warmth, softness, desirable aesthetic value and elegance. Due to limited availability and inability to distinguish fine quality sheep wool and pashmina fiber, adulteration and false declaration became a common practice by manufacturer. Keeping in view the importance, a suitable qualitative PCR-based method has been developed, which could detect Sheep

## Benefits / Utility

The Pashmina growers will get better price. The consumers will get quality product. Enhanced income for processor and exporter Positive impact on export Branding of product

## Country Context

India

## Scalability

The novelty of the device is in the small scale of it's operation. Scale of production will be decided by its demand in the market.

## Business and Commercial Potential

The market for such a technology is huge as the potential stakeholders include the Pashmina processors and exporters as well as the buyers. The other potential stakeholders may include the Govt. enforcement agencies like the Custom Department and the public/private biotechnological laboratories functioning in the country. There is no exactly similar technology available in market at present as the other methods that are available in the market are not serving the need of customer / exporter for confirmation of pure pashmina product /adulteration of any other fibre. The developed technology has unique



## Potential investors to this technical innovation

Textile companies & Woolen Manufacturers



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