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SALIENT CONTRIBUTIONS – PATENTS AND PUBLICATIONS

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The institute has remained credible in research and development as evident from patents and publications. Few salient patents and publications are –

1. Indian Patent Number 211 274 for the invention entitled “ New Polymer Sheet Method, thereof and method of backing carpet or such thick fabric material with the same”
2. Indian Patent Number 214269 for the invention entitled “ A machine for backing carpet”
3. Trademark registered for above mentioned patents vide copyright number 1478866 & 1478867
4. Indian Patent Number 2796/DEL/2006 for the invention entitled “ Cross Bar Horizontal Loom”
5. Indian Patent Application number 34/KOL/2008 for the invention entitled “New Pile / knot formation”
6. Trademark registration of above as India Knot.
7. Copyright on CARPCOST software tool for cost control application filed.
8. Method of regenerating cellulose from coir fiber vide application number 149/KOL/2012
9. Method of developing sprout / stretch registered pile integrating terri and leno mechanism for producing value added towel and carpet vide application number 3755/DEL/2015

PUBLICATIONS:

More than 40 include publication in International Journals like Textile Asia, Melliand Textile Berichte.

Publication include:

1. Woolenization of Jute as an Outlet for Jute as a alternative blanket
2. Carpet related publications, which include wool fibre, woolen yarn and carpet in wool perspective:
 - How to prevent slippage of Yarn in Fabrics?
 - How to prevent cockled appearance in Fabrics?
 - Optimization of Polyester/ Viscose Blends
 - Comparative study of the physical and mechanical properties of flat and Texturized Yarn Fabrics
 - Feasibility of setting up of 100 percent export oriented silk
 - Concept of polyester Filament Yarn Weaving
 - Studies of Blends with Special Reference to Acrylic Fibre as a partner
 - Outlet for Jute? Woolenized Jute & Viscose Blends
 - A study on value Loss
 - R&D Achievements claimed during last 3 years
 - Relationship between winding Breaks and Uster Classimat Faults
 - Effects of Alkali on Linen,

- Bleaching of Linen
- Flame Retardant Products – An in house R&D Effort for Defense end use – Symposium of Defense Textiles
- Report on Symposium on Defense Textiles
- Successful Development & Commercialization of pre-bleach (Linen) Technology
- Linen – An outstanding natural fibre,
- Bleach Lots Integrated,
- SEM and IR Studies on Linen
- Quality System Standards – A Management Approach towards TQM
- Industrial Textiles – An Overview,
- Total Quality Management – Its Principal and Approach
- Oxidative Bleaching System of Linen,
- Indian Carpets – Attracting Buyers Worldwide
- Carpet & Allied Textile Industry - Globalization Context
- Carpet Designing- An Overview
- Carpet Industry in View of Global Challenges
- Carpet yarn and Quality Control
- Carpet, Textiles, Handloom-In Retrospect & Prospect
- Colour - Application, Matching, Computerization in Carpet Perspective
- Handmade Carpet Industry
- IICT – A support to Carpet Industry
- Wool in Carpet Perspective
- Yarn in Carpet Perspective
- Carpet – A Potential sub-sector of Textiles
- CARPCOST – A software for Cost &Quality Control.
- Unpublished work/ Project involvement covers Natural fibers like PALF, COIR, BANANA, SISAL and Natural Processing: Dyeing/ Finishing