


RESUME

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2.	Designation	:	Scientist-D	
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5.	Education	:	M.Tech (Textile Technology)	
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7.	Experience	:	25 Years worked in Extension, Research, Reeling, Nonmulberry, Dyeing and printing, Product Development and Diversification	
8.	Memberships/Fellowships:	:	1. Life member of Textile Association of India. 2. Life member of National Academy Sericultural Sciences. India. 3. The South Indian Textile Research Association.	
9.	Publications	:	- 31 no. of papers published in National - 06-No. of paper published in International Journals. Book Published: a. "RECENT TRENDS IN TASAR CULTURE" (2000) Chapter. No. 5. pp no. 82-104 b. Silk Processing Do's and Don't's (Bilingual-Hindi/English and Kannada/English) -20 no. of paper presented in Workshop and Seminars.	

Projects(s) being perused / carried out by Investigator/Co investigator

1. "Studies on Commercial /Technological characters of different eco-races of *A myllitta D.* Commercially available in India".
2. "Studies on preparation of fancy yarn through reeling, spinning, twisting for product development and diversification."
3. Evolving Process norms for reeling on cottage basin and multiend reeling units (Code-7035).
4. "Techno - economics of cottage basin and multiend reeling. (CYR-7039).
5. Development of pressurized silk hank degumming machine

6. Studies on application of lac dye by screen printing method on mulberry and non mulberry
7. Studies on Aroma finish on silk.
8. Comparative study on performance of Different class of dyes and pigments in Digital printing on silk (POY 1314-26)
9. Studies on tasar cocoon cooking methods and development of cooking devices
10. Biofinishing of tasar silk fabric using enzymes (CFC 7065)
11. Studies on Mechanical finishing of silk printed fabrics special reference to Serampore Clusters
12. Design and development of Eri cocoon degumming machine (POY-1415-42).
13. Development and characterization of silk and silk blended melange yarn - CYF 7081
14. Development of silk yarn finishes and study of its effect on performance and properties of loom finished silk fabrics: CFC 7091
15. Development of woven and knitted products using silk and silk blended Mélange yarns (CFW07007SI).

Highlights of outcome/Progress of the project(s) handled during the years, their outcome and utilization:

- ❖ Lac dye has been successfully used for printing mulberry and tasar silk fabrics by screen printing. Lac dye can be adopted very well for different printing method to bring versatility in design.
- ❖ Aroma finish applied during dry cleaning offers better fastness to further dry cleaning process. Additional dosage of acrylic binder does not offer any change in the durability. No adverse effect has been observed on the stiffness of the fabric after the aroma treatment.
- ❖ Performance of digitally printed fabric with Acid dye based ink during different wash cycle has been evaluated. No color bleeding was observed on the adjacent fabric.
- ❖ Cost of quality, which the multiend reelers are incurring in terms of the high investment at the time of establishment and higher cost of conversion for production of better quality of silk, is not adequately compensated by the value of quality in terms of price of raw silk offered by the market. (ii) Important constraints: (a) Non availability of skilled labour (c) Inadequate working capital (d) Problems in machinery maintenance.
- ❖ Field trials conducted for enzyme finishing on tasar silk fabrics.
- ❖ **Design and development of CSTRI Eco Eri cocoon degumming machine** is equipment for degumming of eri cocoons without any chemicals. This novel approach is expected to enhance the productivity due to shorter processing time. The process is economical and environmental friendly.
- ❖ Successfully developed silk and silk blended mélange yarns using different types of silk waste.
- ❖ Developed silk and silk blended melange diversified products.