



The Director
**CENTRAL SILK
TECHNOLOGICAL
RESEARCH INSTITUTE**

CENTRAL SILK BOARD
(Ministry of Textiles - Govt. of India)

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CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE

Central Silk Technological Research Institute (CSTRI) of Central Silk Board (CSB) is an institute dedicated to the Research & Developmental activities related to silk technology in India. Central Silk Technological Research Institute (CSTRI) was established in 1983 by CSB, Ministry of Textiles, Govt. of India and it has been working to solve the challenges faced by the silk industry and providing innovative solutions which shall bring a paradigm shift in the field.

Vision

See India emerge as the leader in the world market for silk.

Objectives:

- ✓ To improve the quality of silk products viz. raw silk, spun silk and silk fabrics.
- ✓ To develop and introduce process and quality control measures in the production units.
- ✓ To improve productivity through process and machinery standardization.
- ✓ To upgrade the machinery used in reeling, spinning, weaving and wet processing.
- ✓ To enhance the utilization of bi-products for better returns.
- ✓ To provide training, encompassing skill, technology and management.
- ✓ To provide technical and consultancy services to the industry.
- ✓ To provide services for testing of cocoons, fibre, yarn, fabric, dyes, chemicals and water as per national and international standards.
- ✓ To plant the technology through various schemes.
- ✓ To disseminate research findings through various field interaction programmes.
- ✓ To adopt production units for transfer of technology.
- ✓ To provide technical guidance/assistance for setting up new enterprise.
- ✓ To provide on-line information regarding products, processes, technology, machinery, domestic and export markets.

RESEARCH & DEVELOPMENT:

Advanced technology adoption in Silk Reeling, Weaving and Dyeing, Productivity & quality improvement, new-diversified product development, drudgery reduction, manpower reduction by automation, effective by-product utilization, use of renewable energy and specialized application of silk for non-textile purpose are the major important target areas of CSTRI and the same have been addressed efficiently through continuous R&D efforts. Significant progress has also been made in important mandates of CSTRI like training, testing, extension and implementation of schemes etc. The institute has been contributing tremendously in the field of post cocoon activities of mulberry as well as vanya (wild) silk. Also our efforts are towards value addition to the industry by utilizing the by-products effectively. The fruits of R &D are taken to the field through various central sector schemes.

FACILITIES & TECHNOLOGIES



Automatic Silk Reeling Technology

MULBERRY
SILK REELING



Buniyaad Tasar Reeling Machine

VANYA (WILD) SILK
REELING & SPINNING



Silk Handloom with Electronic Jacquard

SILK WEAVING



Silk Yarn Arm (Spray) Dyeing Machine

SILK PROCESSING
(DYEING & FINISHING)



TEXTILE TESTING LAB

Mandate:

- ✓ Quality improvement
- ✓ Productivity improvement
- ✓ Services to the industry
- ✓ Enterprise development
- ✓ Market information dissemination.

TRAINING DIVISION, CSTRI

Training division of CSTRI institute at Bangalore has been efficiently undertaking transfer of technology, training programme and extension activities. Training division's continuous training activities and field interactions resulted in improving the work practices and quality of silk products. A Centre of Excellence for providing training in the field of post-cocoon (silk) technology has been established in CSTI to cater to the needs of silk training. The mission of the CSTRI training programme is mainly to train the silk industry stakeholders such as silk entrepreneurs, silk reelers, dyers, twistors, weavers, floor level workers, students, fashion designers, etc. The officials of state sericulture departments (DOS) and in-house CSTRI staff are also trained time-to-time to enhance their skill levels and technical know-how. Various training programmes conducted by the institute consist of International Training programmes sponsored by Central Silk Board, International Sericulture Commission, Japan International Cooperation Agency (JICA) and Ministry of External Affairs (MEA, GoI). National training programs such as Silk Samarth, Capsule courses and Ad-hoc courses are also undertaken by the institute.

Mission

- ✓ Make continuous efforts in Training the manpower for silk sector and Technology Transfer
- ✓ To improve productivity in all stages of silk production by enhancing the skill of operatives through training programs
- ✓ To create greater opportunities for gainful employment and improved levels of income in silk sector through training and skill up-gradation programs
- ✓ Strengthen levels of efficiency through a commitment to training quality.

TRAINING PROGRAMS

Training programs covering extensive technical aspects pertaining to silk technology in the following fields are provided in CSTRI, Bengaluru.

- ✓ Mulberry Silk Reeling
- ✓ Tasar Silk Reeling & Spinning
- ✓ Muga Silk Reeling & Spinning
- ✓ Eri Silk Spinning
- ✓ Silk Weaving on Handloom
- ✓ Silk Weaving using Powerloom / Shuttleless looms
- ✓ Silk Weaving using Dobby / Jacquard (Harness building)
- ✓ Computer Aided Textile Designing
- ✓ Silk Dyeing, Printing & Finishing
- ✓ Silk Testing

INTERNATIONAL TRAINING PROGRAMS

Two international PCT training programs have been conducted successfully by the Training Division, CSTRI, Bengaluru and a total of 44 trainees from Argentina, Madagascar, Syria, Romania, Lithuania, Ethiopia, Uganda, Tunisia, Ghana, Nigeria, Nepal, Bangladesh, Afghanistan and Vietnam have been trained on silk PCT technologies.



CoE Training Centre, CSTRI, Bengaluru