



TEXTILE INDUSTRIAL SERVICE CENTRE

DEPARTMENT OF APPLIED CHEMICAL SCIENCES AND TECHNOLOGY
GURU NANAK DEV UNIVERSITY, AMRITSAR

Textile industrial service Centre (TISC) was established in the Department of Applied Chemical Sciences & Technology in 1996 with the financial assistance from Central Wool Development Board (CWDB), Jodhpur, Ministry of Textiles, Govt. of India, International Wool Secretariat (IWS) now the Wool Mark Company, New Delhi and Guru Nanak Dev University, Amritsar.

Since its inception, it has been catering to the needs of the textile industry in northern region of India with modern state of the art equipment. The technical services are provided to the allied industries as well as central excise and custom offices, as and when required, at very nominal rates.

TISC believes in quality in testing services and is centered on the **Customer satisfaction**. It has been carrying out physical and chemical testing of all types of textile fabrics, yarns and fibres. It also provides the testing facilities for the evaluation of chemical auxiliaries used in textile industries such as Acids, Alkalis, Oxidizing and reducing agents, sequestering agents, organic solvents, hygroscopic agents, Sundry chemicals, dyes identification, printing thickeners, detergents, wetting agents, dye fixing agents, dispersing agents, leveling agents, antifoaming agents, carriers, binders, finishing agents, oil and lubricants *etc.* So far more than 4000 samples have been tested by the centre. Research and development of testing methods are also being carried out on the demand of industry as and when required.

The centre has also added the facilities for the treatment of textile dye wastewater treatment facilities. The laboratory scale bioreactor has been set up for carrying out the treatment of dye wastewater.

National and International standard methods are adopted based on the requirement of the clients

- American Society of testing and Materials (ASTM)
- American Association of Textile Chemists and Colorists (AATCC)

- British Standards (BS)
- Bureau of Indian Standards (BIS)

The physical testing laboratory is equipped with calibrated Instruments.

Equipments:

1. Universal testing machine
2. Martindale abrasion tester
3. Twist tester (hand operated)
4. Twist tester (motorized)
5. Single yarn twist tester
6. Tensile strength tester
7. Yarn Evenness tester
8. Fibre fineness & Cotton maturity meter
9. Flammability tester (Vertical plane)
10. Flammability tester (Inclined plane)
11. Togmeter
12. Tearing strength tester
13. pH meter
14. Crockmeter (Hand operated)
15. Hygrometer
16. Bursting strength tester
17. Wrap Reel
18. Lea strength tester
19. Round cutter for GSM
20. Moisture meter
21. Thickness gauge
22. Colour matching cabinet
23. Beesley balance
24. Pressley tester
25. Crease recovery tester
26. Stiffness tester
27. Orbitek shaker
28. Baer sorter
29. ICI Pilling tester
30. Projection microscope
31. Perspirometer
32. Electronic Balance
33. UV-vis Spectrophotometer
34. Reflectance Spectrophotometer
35. Gas Chromatograph
36. BOD incubator
37. Laminar flow
38. Bioreactor (Peristaltic pumps, Rotameter, Air pump).

Staff:

| | |
|-----------------------------|----------------------|
| Coordinator: | HOD |
| Senior Technical Assistant: | Mrs. Sucharita Arora |
| Junior Technician: | Mr. Pritpal Singh |

For submission of samples and further details, contact:

**Department of Applied Chemical Sciences & Technology,
Telephone no. 2258853, 2258802-09, PABX Ex.: 3389, 3393**