SITRA TEXTILE TESTING AND SERVICE CENTRE

Dyers Association of Tirupur Building,
Door No : 7/4, 2nd Floor ,Pethichettipuram 2nd Street,
Rayapuram Main Road, Tirupur - 641601.
Phone : 0421-4530443, E-mail: tprchem@sitra.org.in, Working hours: 10.00 am - 6.00 pm

SITRA has established a sample collection centre at Tirupur in the year 2005. Samples collected at the centre are brought to SITRA the same day. In many cases, results are reported to the customers within 24 hours, thus reducing considerably the turnaround time. Based on customers' feedback, SITRA has upgraded the centre into an extension service centre and has completed the process of setting up a laboratory with essential instruments for physical and chemical testing of knitted fabric / garments, water effluent, chemicals etc. During the year 2015, the centre had moved to a spacious building to accommodate more instruments. With additional instruments added during the year, the centre has been able to reduce the turnaround time of sending samples to SITRA and carry out testing for water / effluent testing, fibre identification & blend analysis, etc

TESTING SERVICES

PHYSICAL

- *Count*
- *CSP*
- *TPI*
- *No. of ply*
- *Pilling Test - fabric*
- *TPI of yarn from fabric*
- *Ends & Picks per Inch*
- *Yarn count (Fabric)*
- *Zipper/ snap button pull test*
- *Tearing strength*
- *Tensile strength*
- *Seam slippage*
- *Bursting strength*
- *Length of yarn*

CHEMICAL

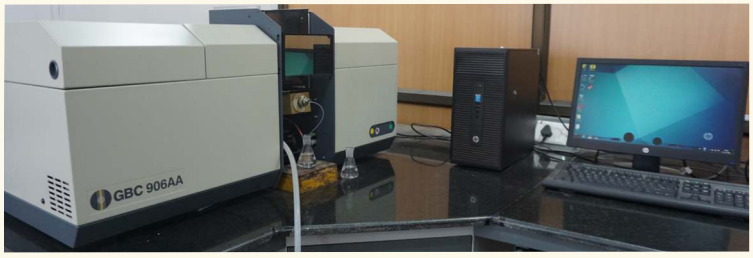
- *Blend analysis (bi & tri Component)*
- *Fibre identification*
- *Hot air shrinkage*
- *Dimensional stability*
- *Barium activity number (BAN)*
- *Chemical purity*
- *Colour fastness to washing, rubbing water, dry cleaning, perspiration & sublimation*
- *IFB washing & drying*
- *Moisture content*
- *Solid content*

KNIT GARMENTS

- *Count of Yarn*
- *GSM*
- *Course & loop length*
- *Courses & wales per Inch*
- *Yarn separation*
- *Lycra denier & percentage*
- *Yarn length (sewing threads, 10000 m.)*
- *Shrinkage after washing & ironing*
- *Shrinkage & spirality*
- *Total garment weight*
- *Strength loss after 12 wash*
- *Fabric dimension*
- *Type of weave/ structure*

WATER ANALYSIS

- *pH*
- *Conductivity*
- *Dissolved oxygen*
- *Total hardness as $CaCO_3$*
- *Calcium hardness*
- *Magnesium hardness*
- *Chlorides as Cl-*
- *Free CO_2*
- *Total alkalinity*
- *Phenolphthalein alkalinity*
- *Carbonate alkalinity*
- *TDS & TSS*
- *Colour & odour*
- *COD & BOD*
- *Metals (Na, Zn, Cu, Co, Pb, Cd, Ni, Sb, Fe, As) using AAS*
- *Fluorides*
- *Sulphates*
- *Iron*
- *Turbidity*
- *Nitrogen*
- *Total Chlorine*



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CONSULTANCY SERVICES

With its rich 4 decades experience in the field of textile processing backed with latest technology equipments, SITRA offers consultancy services to textile chemical processing industries and other related institutions on various technical and commercial aspects, a few of which are mentioned below:

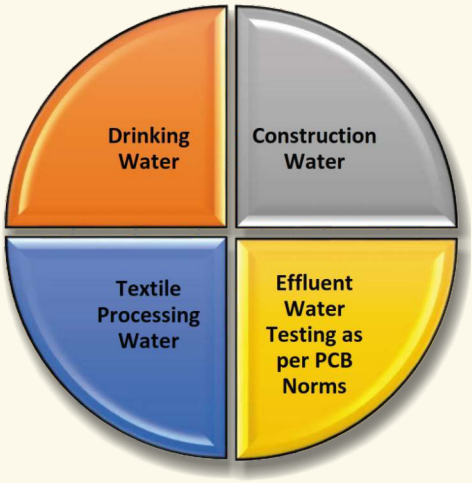
- ***Consultancy services on technical troubleshooting***
- ***Process optimization to achieve desired quality parameters***
- ***Study of water consumption* and / or material to liquor ratio of various processing machines***
- ***Any other adhoc problems related to processing***

TRAINING SERVICES

Process and quality control in wet processing
Defects & their remedies
Practical aspects of wet processing
Lab technician programmes
Eco-labeling and green processing of textiles

Also customized training programs are offered especially for processing units

WATER PACKAGE TESTS



SITRA is recognized by the **TamilNadu Pollution Control Board (TNPCB) for conducting water consumption audits at chemical processing units.*

Tirupur Office:
SITRA Textile Testing & Service Centre
The South India Textile Research Association (SITRA)
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Door No : 7/4, 2nd Floor ,Pethichettipuram 2nd Street,
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