

# What is ORGANIC COTTON ?

- **Cotton which is grown using methods & materials that have LOW IMPACTS on the environment – NO INSECTICIDE or PESTICIDE and CHEMICAL FERTILIZERS**
- **Pass a set of strict organic standards**



# Steps to become a Certified Organic Cotton Grower ?

**Land preparation - 3  
years not using toxic  
chemicals, insecticide  
and pesticide**

**Apply for certification  
by accredited parties:  
USDA certified parties,  
Eecocrt, Bio- Inspector,  
Control Union, Soil  
Association...**

**Not using chemical  
fertilizer to feed the  
plant**

# Conventional Cotton Vs Organic Cotton

## Conventional Cotton

- 1) **Most pesticide-intensive crop on earth (about 25% of world's insecticides are used in cotton plantation)  
Intensive use of toxic pesticides and chemicals causes serious health and environmental impacts (cyanazine, sodium chlorate ....)**
- 2) **Annual global cotton output~ 25 million metric tons**
- 3) **Yield about 370 Kg/ acre**

## Organic Cotton

- 1) **Organic agriculture prohibits the use of toxic and persistent pesticides and fertilizers.**
- 2) **Less than 1% global cotton production (about 31,000 metric tons in 2005/06 reported by Organic Exchange)**
- 3) **Yield per acre about 148 Kg/ acre (40% of conventional cotton)**

# Organic Cotton Supply

Major producing countries in 2004/05 :

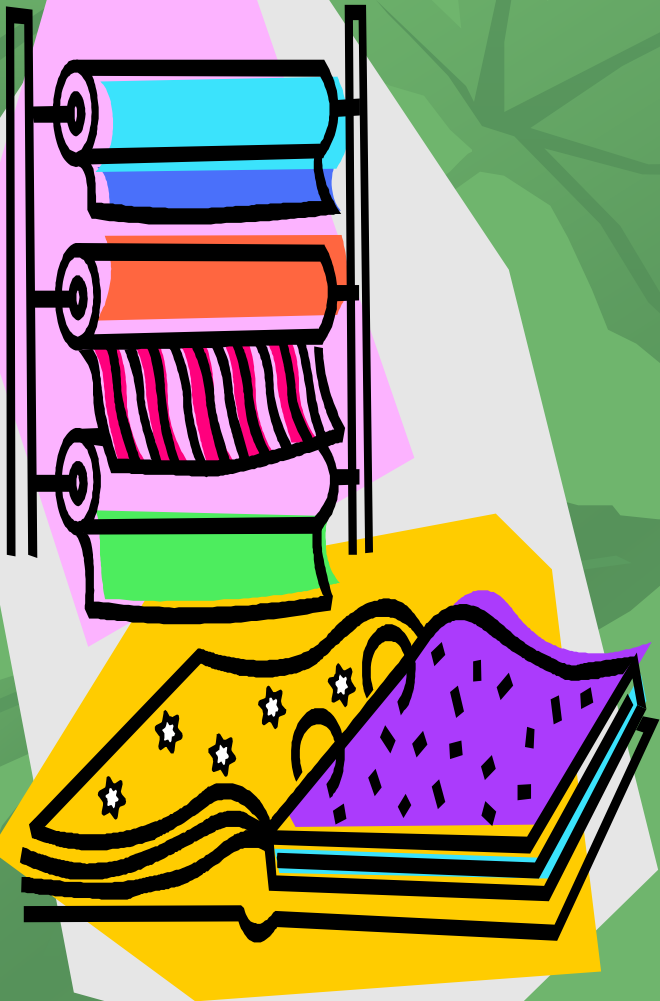
- Turkey 41% of total Organic production
- India 25%
- USA 8%
- China 7%
- Tanzania 5%
- India is expected to emerge as the world's number one producer of Organic Cotton in 2007/08

# Average Organic Cotton fiber specifications offering in market:

- **Grade** about **MIDDLING**
- **Staple Length** **1-3/32” ~ 1-1/2”**
- **Micronaire** **3.5 ~ 4.5**
- **Strength** **32 ~ 45 Grams per Tex**
- **Yarn count range** **Ne 10s ~ Ne 80s**
- **Suitable for woven/ knitted fabrics and Home Textile**

# Criteria for Organic Fabric Supplier

- Cotton fiber used in product was purchased from a certified organic cotton grower
- The fiber was handled, processed and labeled according to the OE 100 Standard (This is a voluntary Standard)
- Grower and the finished yarn/ fabric manufacturer must be certified



# PT Tyfountex Indonesia is Organic Exchange (OE) 100 & Global Organic Textile Standard (GOTS) certified

- ✓ **Yarn**
- ✓ **Denim/ color fabric**
- ✓ **Home textile**
- ✓ **Garment**

# OE 100 Vs GOTS

## OE 100

- Can blend any percentage of organic cotton with regular cotton/ other raw materials.

## GOTS

- Minimum percentage of organic cotton is 70%.
- Not allowed to blend the remaining percentage with conventional cotton but with other raw materials
- Chemicals used for process production have to meet GOTS requirements.



# Processing Requirements for GOTS

- Separation and identification at all stages of processing
- Prohibited/ restricted inputs of specified chemicals in all production stages
- Follow basic requirements for auxiliary agents and dyestuffs in all processing stages
- An established Environmental Management policy
- Waste water monitoring sediment, temperature, Ph, BOD and COD contents < 25 g/Kg, Copper content < 0.5g/L
- Storage, packing and transport must separate from conventional products to prevent contamination

# To Go Through the “GREEN CHANNEL“, TYFOUNTEX Has Followed the Path .....

**Purchase certified Organic Cotton and Receiving :** Check the integrity of OC bales; authenticate organic document and certificates; store in designed area and segregated from conventional cotton bales

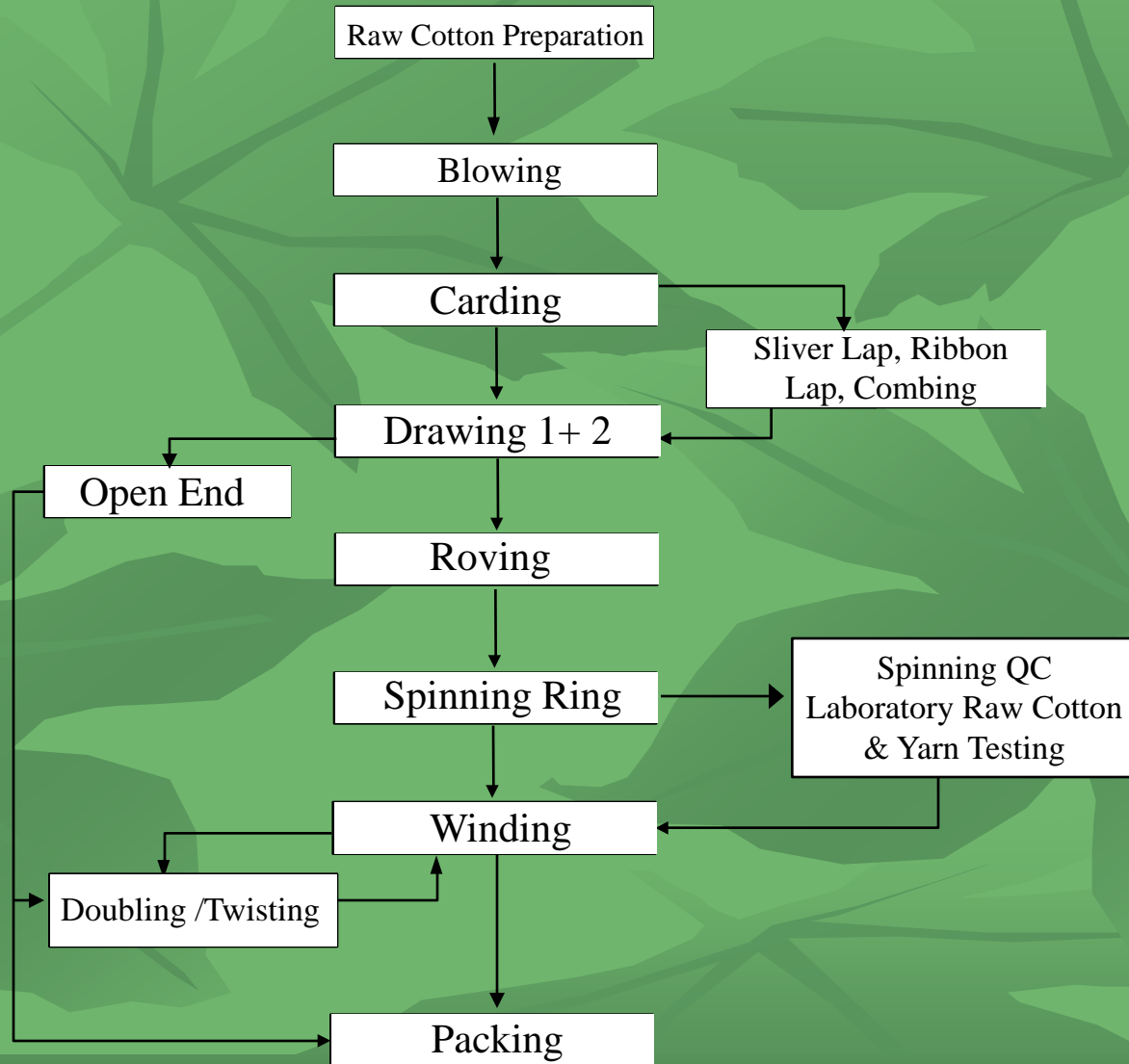


**Production :**  
**Spinning**

- Processing in accordance with system plan
- All organic raw cotton are labeled “ORGANIC “ in green color
- Segregation of organic and conventional raw cotton
- No Additives of non organic nature in spinning process



# Flowchart Spinning Production



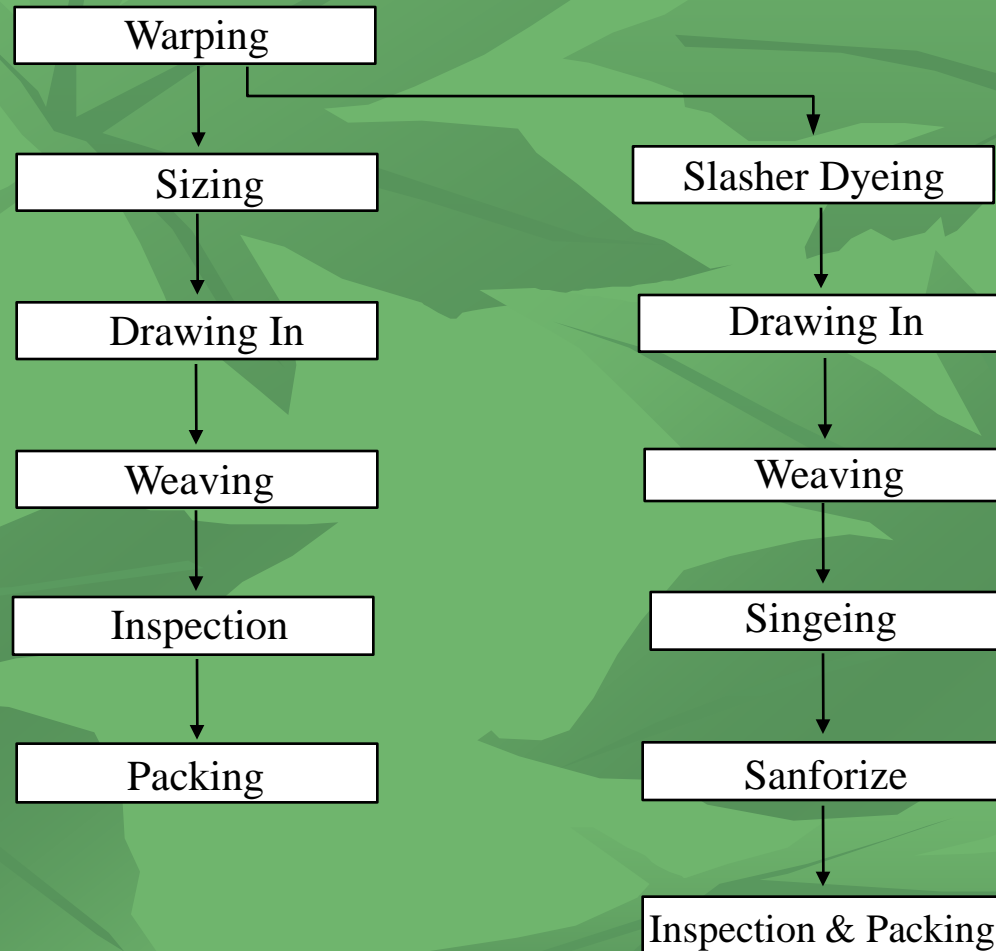
# To Go Through the “GREEN CHANNEL“, TYFOUNTEX Has Followed the Path ..... (Cont.)

## Weaving

- Use only allowed sizing agents ( Starch, modified corn starch, & < 25% PVA )
- Segregation of organic and regular production lines



# Flowchart Weaving Production



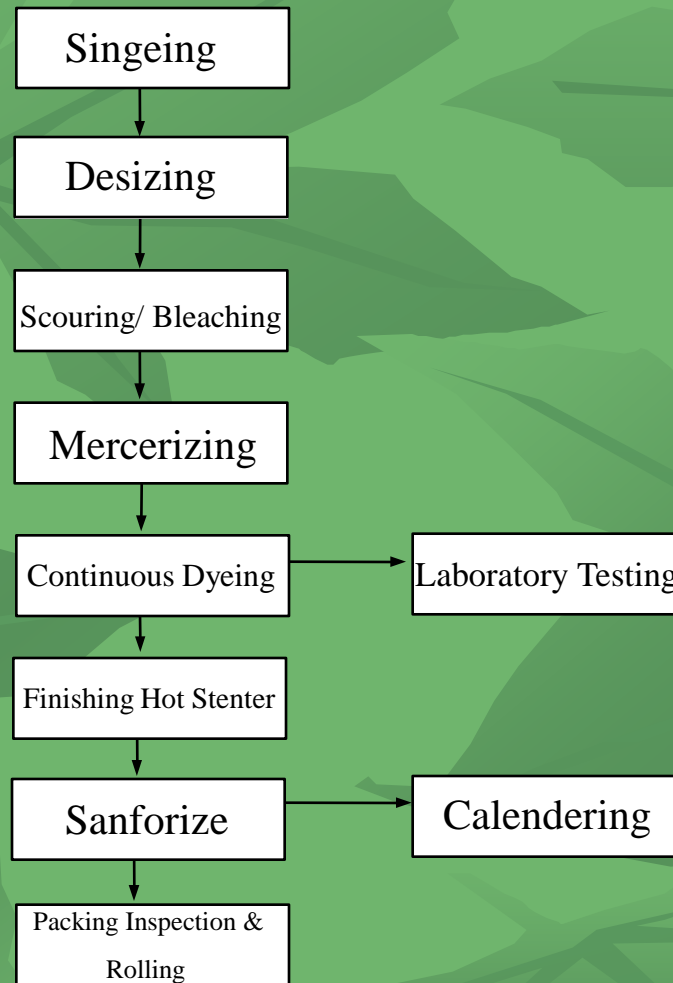
# To Go Through the “GREEN CHANNEL“, TYFOUNTEX Has Followed the Path ..... (Cont.)

## Dyeing & Finishing

-- Only the approved chemicals, dyestuffs, and auxiliaries from GOTS can be used for production.



# Flowchart Dyeing Production



# To Go Through the “GREEN CHANNEL“, TYFOUNTEX Has Followed the Path ..... (Cont.)

## Garment

- OEKO-Tex approved accessories
- Segregation of organic and regular production lines
- Use only GOTS approved chemicals in laundry





# Flowchart Garment Production

Pattern Marker



Cutting



Stitching



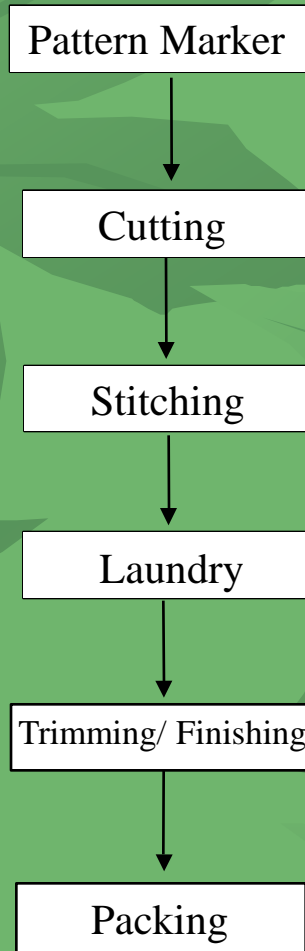
Laundry



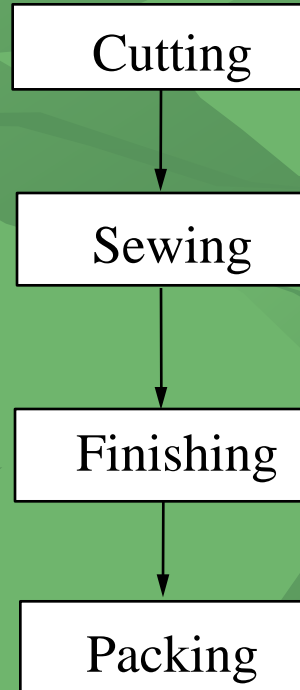
Trimming/ Finishing



Packing



# Flowchart Homelinen Production



# Storing Products

To ensure identification of lots and avoid mixing with or contaminated by other products



## Record Keeping and Internal Quality Assurance :



- Must be supported by effective documented control system, and records to provide audit
- Technical Quality Parameters final product labeled should comply with the technical quality parameters required

# OE and GOTS Certificates

## CERTIFICATE

CERTIFICATE N°: C88687OE-02.2007

Field of attention:

**Textile**  
**Organic Exchange 100 Guidelines**

Issued to:

**PT Tyfountex Indonesia**  
**Solo, INDONESIA**  
**Project in: INDONESIA**

Standard:

**OE 100 Standard of The Organic Exchange**

**Valid until: 28 April 2008**

Control Union Certifications declares to have inspected the unit(s), and/or product(s) of the above mentioned client, and have found them in accordance with the standards mentioned above.  
This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate.  
This certificate is in force until further notice, provided that the above-mentioned client continues meeting the conditions as laid down in the client contract with Control Union Certifications.  
Based on the annual inspections that Control Union Certifications performs, this certificate is updated and kept into force.

Date of certification:  
23 December 2006  
Place and date of issue:  
Jakarta, 21 February 2007



Control Union Certifications  
P.O. Box 101  
8000 AD Zwolle  
The Netherlands  
<http://www.controlunion.com>  
tel.: +31(0)36-4269100

CONTROL UNION CERTIFICATIONS

## CERTIFICATE

CERTIFICATE N°: C88687GOTS-02.2007

Field of attention:

**Textile**  
**GOTS**

Issued to:

**PT Tyfountex Indonesia**  
**Solo, INDONESIA**  
**Project in: INDONESIA**

Standard:

**\*Global Organic Textile Standard - GOTS\***  
standards for the processing of fibres from certified organic agriculture.

**Valid until: 27 June 2008**

Control Union Certifications declares to have inspected the unit(s), and/or product(s) of the above mentioned client, and have found them in accordance with the standards mentioned above.  
This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate.  
This certificate is in force until further notice, provided that the above-mentioned client continues meeting the conditions as laid down in the client contract with Control Union Certifications.  
Based on the annual inspections that Control Union Certifications performs, this certificate is updated and kept into force.

Date of certification:  
9 May 2007  
Place and date of issue:  
Jakarta, 11 May 2007



Declared by:  
*[Signature]*  
On behalf of the Managing Director

M. W. Winaryo  
Certifier  
Control Union Certifications  
P.O. Box 101  
8000 AD Zwolle  
The Netherlands  
<http://www.controlunion.com>  
tel.: +31(0)36-4269100

CONTROL UNION CERTIFICATIONS

# GOTS Labeling



**PT TYFOUNTEX INDONESIA**

Tel: +62-271-716888 Email: tyfslo@tyfountex.com



CU 806967

Global Organic Textile Standard  
Organic Cotton Yarn

Member of Control Union World Group



**PT TYFOUNTEX INDONESIA**

Tel: +62-271-716888 Email: tyfslo@tyfountex.com



CU 806967

Global Organic Textile Standard  
Yarn made with **90%** Organic Cotton

Member of Control Union World Group

# OE 100 Labeling



**PT TYFOUNTEX INDONESIA**

Tel: +62-271-716888 Email: tyfslo@tyfountex.com

This product contained **100% Organic Cotton**  
was Certified by Control Union. CU 806967

Member of Control Union World Group



**PT TYFOUNTEX INDONESIA**

Tel: +62-271-716888 Email: tyfslo@tyfountex.com

This product contained **5% Organic Cotton**  
was Certified by Control Union. CU 806967

Member of Control Union World Group

# OEKOTEX Certificates

CERTIFICATE

**TESTEX**   
 Goltfstrasse 51  
 CH-8007 Zurich

Institute of the International Association for Research  
 and Testing in the Field of Textile Ecology



The company

**PT Tyfountex Indonesia**

Sumpung, Klaten, Sukoharjo  
 P.O. Box 210  
 ID - 57102 Solo, INDONESIA

is granted authorization according to Oeko-Tex Standard 100 to use the  
 Oeko-Tex mark, based on test report JRWG 085484.1



for the following articles:

**Fabrics and denim fabrics made of 100% cotton,  
 cotton/polyester, cotton/polyester/Lycra® and  
 cotton/Lycra®, dyed and finished  
 (wash-out articles)**

The results of the inspection made according to Oeko-Tex Standard 100, product class I for  
 ready articles, have shown that the above mentioned goods meet the future-ecological  
 requirements of the standard (pending acceptance).

The certified articles fulfil the requirements of the existing European legislation regarding the  
 use of azo-dyes.

The holder of the certificate, who has issued a conformity declaration according to EN 45014, is  
 obliged to use the Oeko-Tex mark only in conjunction with products that are conform with the  
 entire criteria listed.

This authorization is valid until 18.11.2007

Zurich, 27.11.2006



*Serge Röllin*

Serge Röllin  
 Managing Director

*Dr. Jean Pierre Wang*

Dr. Jean Pierre Wang  
 Managing Textile Centre

CERTIFICATE

**TESTEX**   
 Goltfstrasse 51  
 CH-8007 Zurich

Institute of the International Association for Research  
 and Testing in the Field of Textile Ecology



The company

**PT Tyfountex Indonesia**

Sumpung, Klaten, Sukoharjo  
 P.O. Box 210  
 ID - 57102 Solo, INDONESIA

is granted authorization according to Oeko-Tex Standard 100 to use the  
 Oeko-Tex mark, based on test report JRWG 081298.1



for the following articles:

**Garments made of 100% cotton, cotton/polyester,  
 cotton/polyester/Lycra® and cotton/Lycra® fabrics and denim  
 fabrics (wash-out articles),  
 including accessories (woven and printed labels, sewing &  
 embroidery thread, interlining, fastener, plastic & metal  
 accessories)  
 (based on material pre-certified according to Oeko-Tex Standard  
 100)**

The results of the inspection made according to Oeko-Tex Standard 100, product class II for  
 products with direct contact to skin, have shown that the above mentioned goods meet the  
 future-ecological requirements of the standard (pending acceptance).

The certified articles fulfil the requirements of the existing European legislation regarding the  
 use of azo-dyes.

The holder of the certificate, who has issued a conformity declaration according to EN 45014, is  
 obliged to use the Oeko-Tex mark only in conjunction with products that are conform with the  
 entire criteria listed.

This authorization is valid until 31.12.2007

Zurich, 08.01.2007



*Serge Röllin*

Serge Röllin  
 Managing Director

*Dr. Jean Pierre Wang*

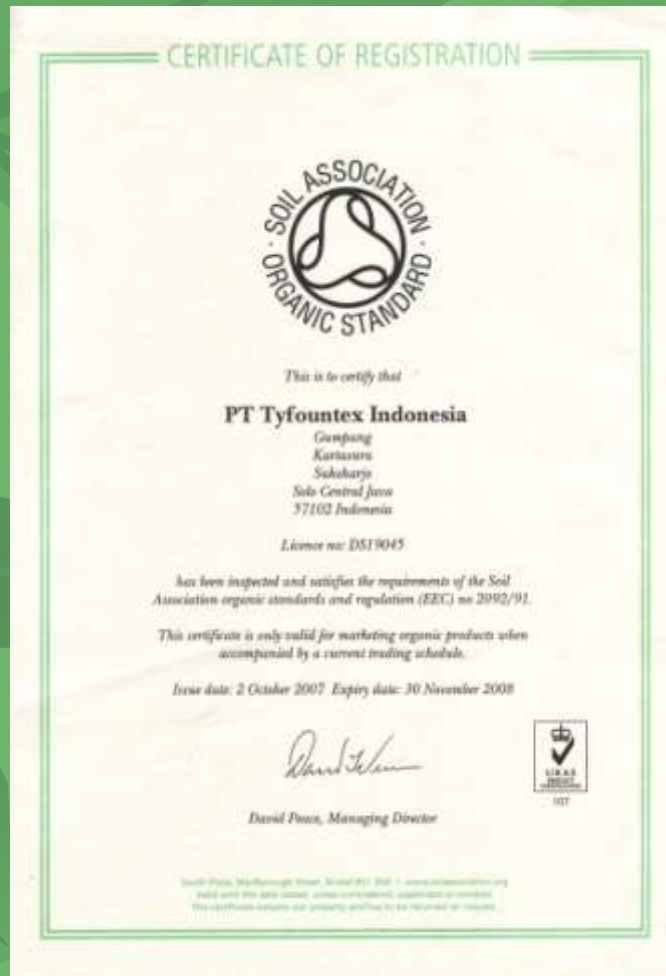
Dr. Jean Pierre Wang  
 Managing Textile Centre



# ISO 14001:2004 Certificate



# Soil Association Certificate



# Garment Organic Cotton Label



# Waste Water Treatment Plant (Before Treatment)



# Waste Water Treatment Plant (Processing)



# Waste Water Treatment Plant (After Treatment)



# Boiler Air Quality



# Boiler Laboratory





# Boiler

