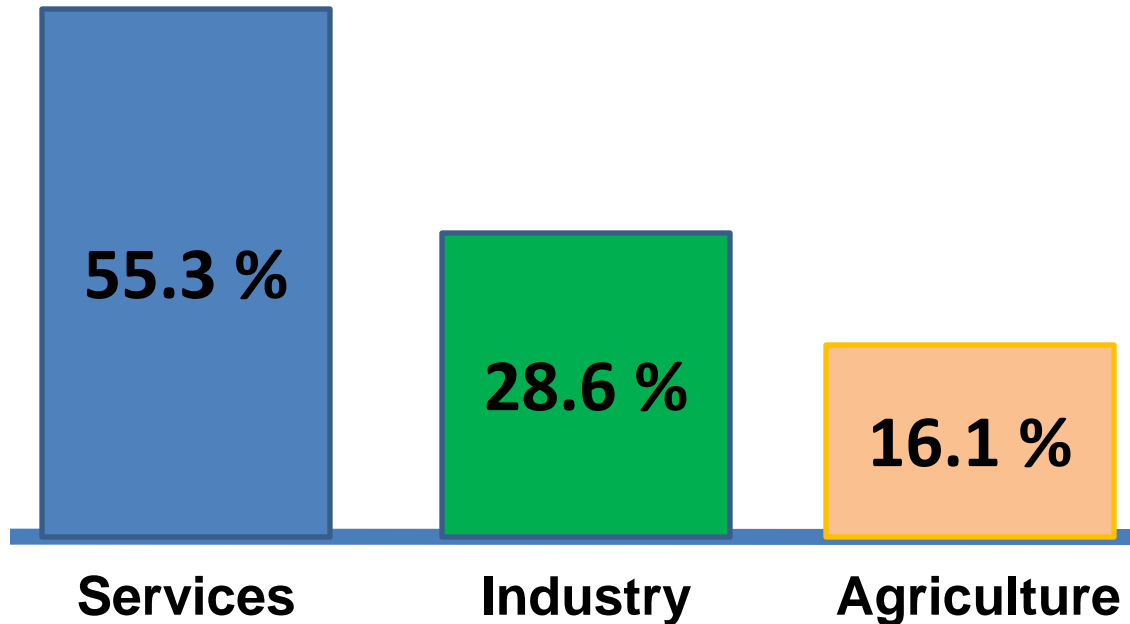


innovation
& VALUE
creation

M SANKAR

SENIOR GENERAL MANAGER - MARKETING

India GDP – Sector wise Contribution 2010-11



Textile
Industry
Contribution

14 % Contribution

4 % to GDP

17 % to Export Earnings

2nd largest employment provider

Tamil Nadu

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Tamil Nadu - Coimbatore

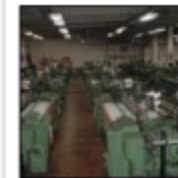
Cotton prices move up

M. Soundariya Preetha

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Textile sector protests arbitrary power cuts by Powercom

January 10, 2011 (India)



The Ludhiana industry has raised a strong case before the Punjab State Electricity Regulatory Commissioner (PSERC) regarding the uninformed and unreasonable power cut that the Powercom authorities in the state have imposed on category IV processing units in Ludhiana without any prior intimation. This has caused these units to suffer heavy losses.

Vallabh Textile Co Limited, Nahar Industrial Enterprise Limited and Vardhman Industries Limited – three of the major industrial houses in Ludhiana have forwarded letters to the PSERC authorities urging them to interfere in the matter.

Minimum Wages for Unskilled Worker at Rs. 170 – 180 (applicable upto Mar 31st, 2011) and is expected to reach Rs. 200 to 220 levels

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Just in:

• 9 pc GDP growth rate can be achieved: FM • Spain

Last updated: 11 Feb, 2011



Shortage of workers hurts India's textile production

Namrata Kath Hazarika | 10 Feb, 2011

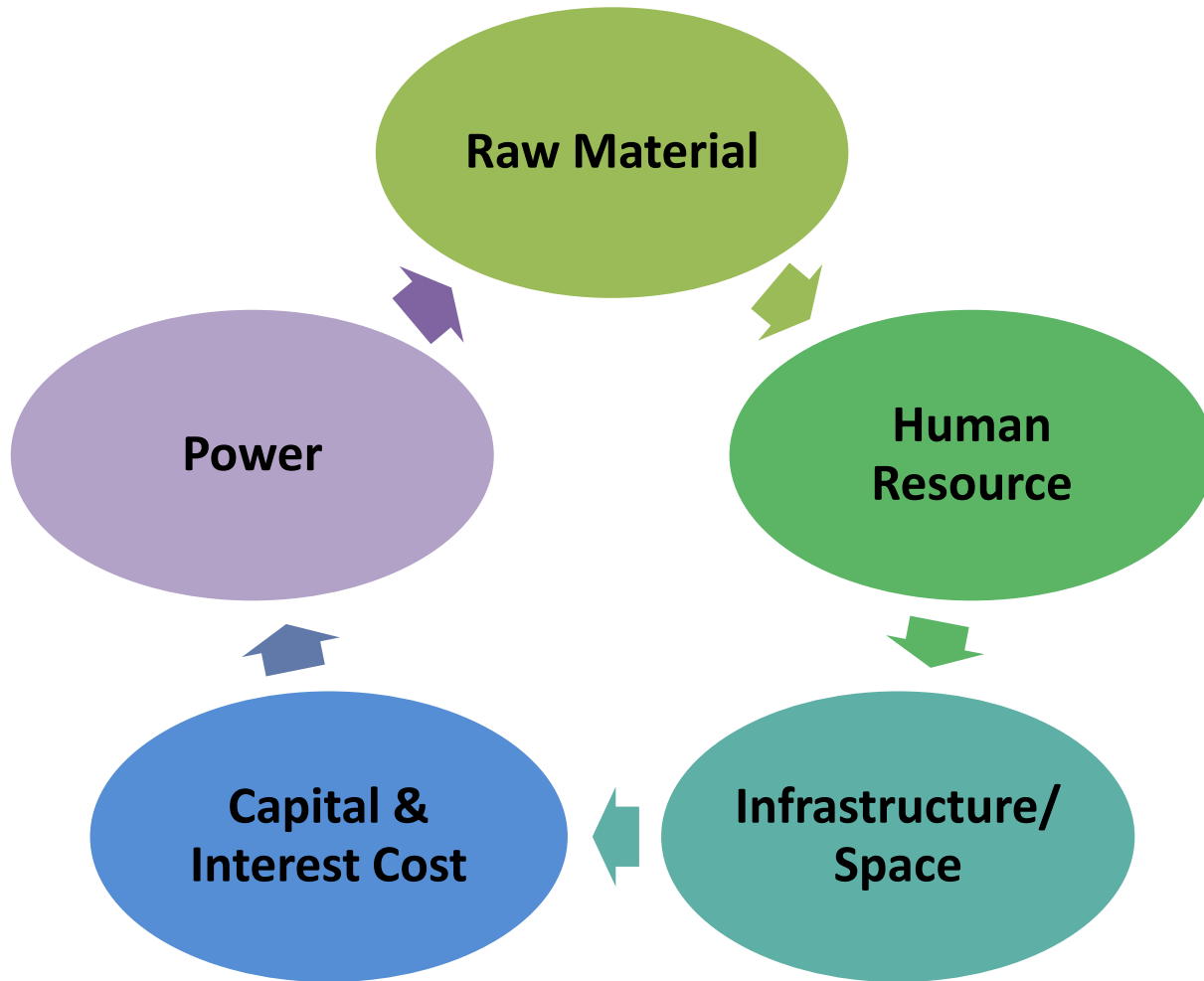
The Indian textile and clothing industries are confronted with huge shortages



Top Stories

- » 'Apparel exports to S Africa set to reach greater heights'
- » Jan factory output growth slows to 3.7 pc

Challenges Facing Textile Industry



Modern Spinning Technology



Modern Spinning Technology



➤ Card Sliver System

- ✓ Opening
- ✓ Carding

➤ Combing System

- ✓ Non Autoleveler Drawframe
- ✓ Lap former & Comber
- ✓ Autoleveler Drawframe

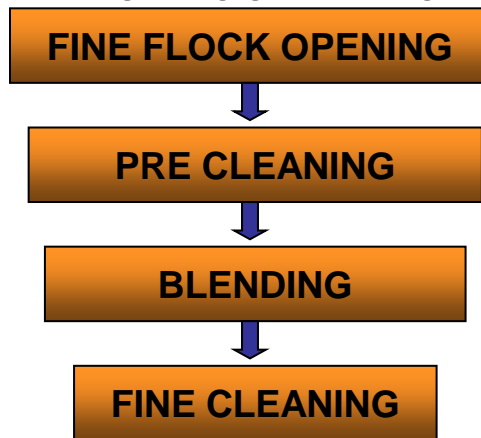
➤ Ring Spinning System

- ✓ Roving frame
- ✓ Ring frame
- ✓ Compact Spinning

Card Sliver System Blowroom



New Concept Blowroom Line



Bale Plucker Line:

- Higher Production up to 1500 kg/hr
- Versatile – Cotton & Synthetic
- Auto scanning arrangement
- User friendly operation

Card Sliver System Card



Salient Features:

- **Production:** **Courser count** – Upto 120 kgs / hr
 Medium count – Upto 65 kgs / hr
- **Higher Cleaning efficiency**
- **Higher Nep removal efficiency**
- **High accuracy of auto levelling of card sliver**

Combing System

Non Autoleveler Drawframe



Salient Features:

- High delivery speed of upto 1000 mpm (mech)
- Twin Delivery
- Positive sliver feed with feed table for cans upto 40" x 48"
- Delivery can upto to 40" dia. (Auto can changer for cans upto 24")

Combing System Lap former



Salient Features:

- High delivery speed upto 150 m/min
- Lap weight upto 80 gms /mtr
- Auto spool changer
- Automatic lap transportation system

Combing System Comber



Salient Features...

- Production upto 1.7 Tons/day
- Light weight nipper arrangement
- Excellent quality of Combed sliver

Combing System Autoleveler Drawframe



- Higher delivery speed upto 1100 m/min
- Digital levelling for high degree of accuracy
- Integrated suction system

Ring Spinning System Roving frame



Salient Features...

- Spindleage upto 200
- Spindle speed upto 1500rpm (mech)
- Suspended Flyer
- Package size of 16" x 6"
- Auto doffer with Provision for bobbin transport system

Ring Spinning System

Ring frame

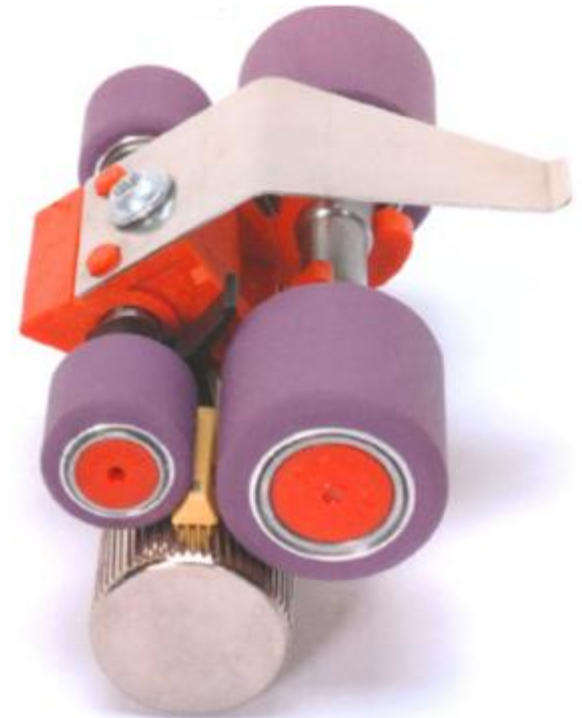
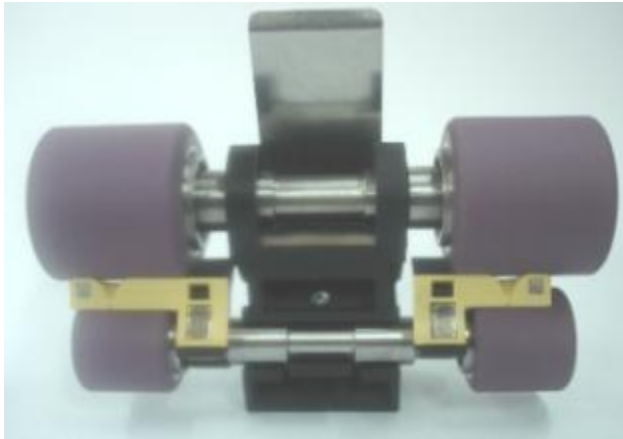


Salient features

- **Spindleage upto 1632 with in built autodoffer**
- **Motorized Drive for Drafting**
- **Additional Suction Arrangement for Longer length Ringframe**
- **Servo Drive for Ring rail**
- **Linking to winder and Compact Spinning as optional features**

Ring Spinning System Compact Spinning

The
Future



Salient features

- ✓ Enhanced Yarn Quality
 - ✓ 80 – 85% reduction in S3 Hairiness value (measured in Zweigle)
 - ✓ 10 – 15% improvements in RKM (single yarn strength)
- ✓ Lowest operational cost
- ✓ **Additional Power not required**



Automation and Man Power Savings

Blowroom - Bale plucker



Automatic Bale Plucking machines with production of upto 1500kgs/hr reduces manpower requirements to a great extent.

Spinning Preparatory Higher Packaging & Automation



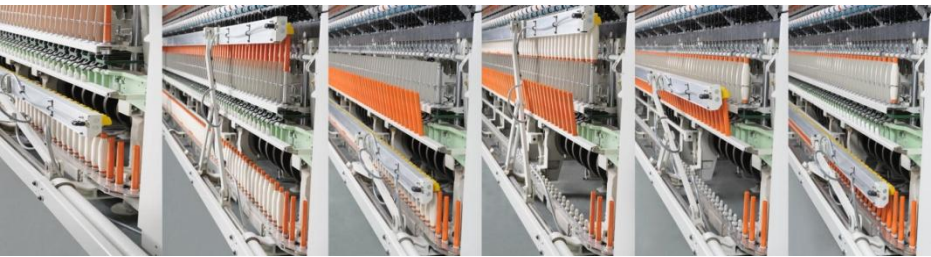
- High capacity cans (40") at Card, Drawframe & Lapformer
- Can changers at Card & Drawframe with reserve cans helps in minimum human requirements/intervention and increases productivity.

Auto-doffing at Speedframe



- Improves efficiency
- Rationalization of work force
- Provision for automatic bobbin transportation

Auto-doffing at Ringframe & Link-coner



- Improves efficiency
- Rationalization of work force
- Increases life expectancy of components
- Reduces hard waste
- No manual handling of full cops

Automatic Bobbin Transportation System



- ✓ No blocking passages and allows orderly factory layout
- ✓ Space reduction and optimization of labour
- ✓ Rationalization and automation of product flow
- ✓ Reduction of material handling – results in improved quality of roving subsequently increasing the quality of yarn
- ✓ Overall reduction of factory cost and increase of spinning mill efficiency

Automation and Man Power Savings



For 30s C Ne

No. of Spindles	No. of Workforce Required / day		Reduction in Workforce
	Non Automated Plant	Automated Plant	
30,000	270	150	120

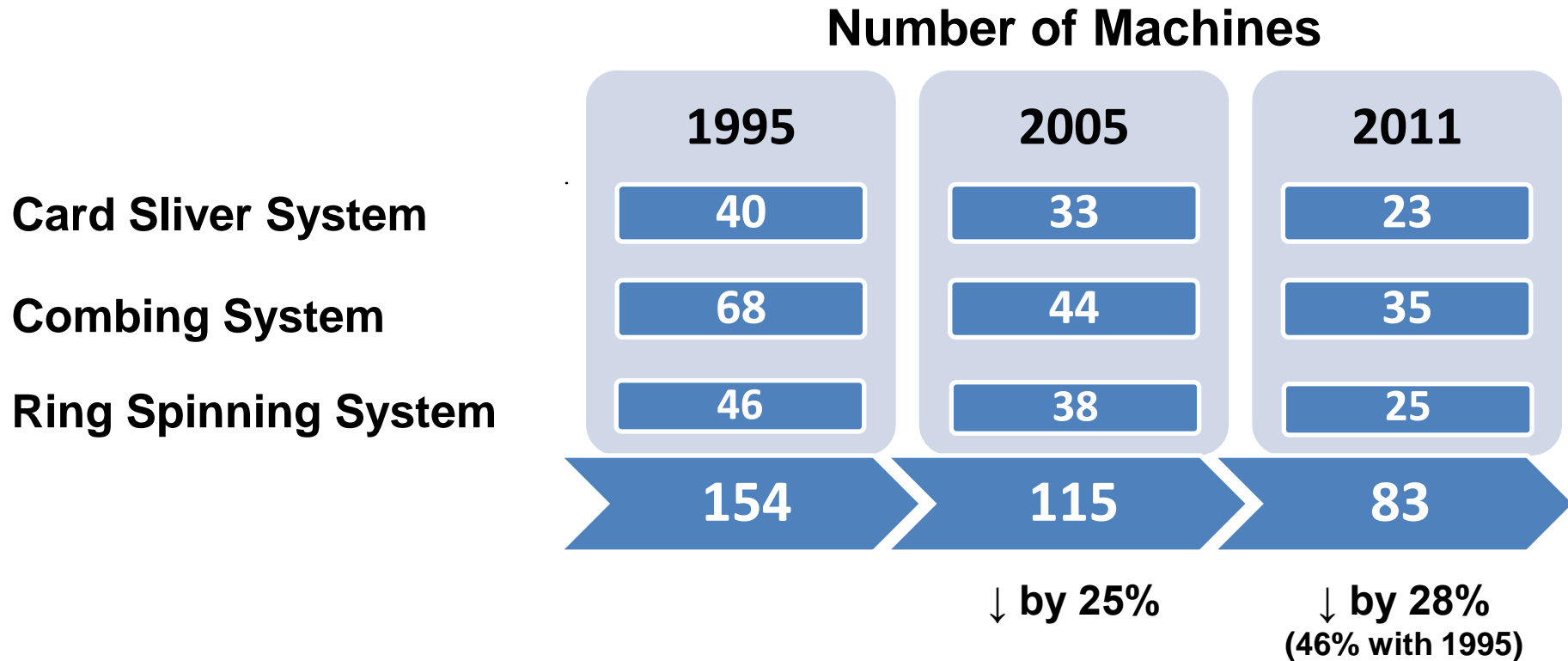
Note: Approximate nos. depends upon manpower training, skill levels and level of automation.

Technological Advancements & Infrastructure / Space Savings

Machinery Requirements



Count: 30s CH Ne, Spindleage – 31,000



The reduced machinery requirements will lead to savings in Space, Man Power, Power etc.,

Note: 1995 (1008 Spdls), 2005 (1200 Spdls), 2011 (1632 Spdls)

Space Savings

Space Requirements
for Project

25,000 Spindles
1200 Spdls/frame

30,000 Spindles
1632 Spdls/frame

Infrastructure / Space Savings of about 20 to 25%



Technology & Power Savings

Power Savings



Reduced number of machinery requirements will lead to,

**Installed &
Consumed
Power Savings**

**Space Savings
of 20 to 25%**

**Savings in
Exhaust,
Filtration, Air
Conditioning
etc.,**

Power Savings

Today's spinning machinery are equipped with the most modern electrical & electronic drives that consume minimum power and helps in power savings and are also eco friendly



Technology

Raw Material Realization & Investment Analysis

**Raw
Material**

- **Optimal Raw
Material Realization**

**Capital
Cost**

- **Competitive
Investment Cost**
- **Value for Money**

Technological Advantages



Technological advantages & automation will lead to,

- **Reduced number of machinery**
- **Space Savings**
- **Manpower Savings**
- **Savings in Power, Exhaust Air – Filtration, Air conditioning etc.,**

Advantage India



- ✓ **Strong cotton base**
- ✓ **Strong entrepreneurial class**
- ✓ **Flexibility in production of small order lots**
- ✓ **Presence of integration i.e. concept to consumer**
- ✓ **Ability to handle value additions, embellishments etc.**
- ✓ **Adequate labour force at relatively competitive wages**
- ✓ **Good comfort with western world**
- ✓ **Growing Domestic Market**



LMW is committed for

innovation
& **VALUE**
creation

Thank you