



NSL Textiles Limited

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1. Executive Summary

Sector	Textiles
Business Overview	<ul style="list-style-type: none">→ Founded in 2002, NSL has established itself as one of India's leading integrated textiles company with presence across the value chain covering cotton to garments→ Based in South India, NSL is part of India's fastest growing industrial groups which has a turnover of Rs 60 billion→ With multi location state of the art manufacturing facilities situated in the heart of cotton growing areas in South India, NSL' operations span from cotton farming, ginning, spinning, yarn dying to weaving, processing and garment manufacturing. The facilities include fabric designing, state of the art product development activities also.→ Key product offerings: Yarn – wide variety ranging from OE, Carded, Combed and Compact to Dyed yarn; Fabric – wide range of fabrics viz. yarn dyed, printed, bleached etc.; Garments – Men's shirts, ladies' tops, boys' tops & bottoms→ Backed by a dynamic and enviable management and operating team

2. Company Overview

NSL – A Compelling Proposition



NSL Textiles having integrated operations from ginning, spinning, weaving, yarn dyeing, fabric designing, new product development to fabric processing have manpower with requisite skill sets to produce state-of-art finished products at every stage of operation. Our Lab and Design Studio are amongst the best in the country of any product development to meet stringent quality standards and aspirations and tastes of fastidious overseas and domestic customers.

WORKFORCE

- ✓ Well trained enviable workforce of about 6000 people across 5 districts of Andhra Pradesh State, to work round the clock;
- ✓ Qualitative domiciled work-force available in the region along with migrant workforce from various parts of India.

AMENITIES AND FACILITIES

- ✓ On par with city residential amenities being made available for bachelor and family viz., accommodation, power and many other amenities

TRAINING AND PARTNERING

- ✓ On an average 720 man-hours on the job training imparted to each workforce per year making them best skill based and trained workforce available when compared with peer level organization's.
- ✓ NSL Textiles remains a premier partner in Andhra Pradesh with National Skill Development Corporation and imparts training through TSC /Skill India.
- ✓ Enhances / promotes training program of various skill based training program from time to time.
- ✓ Excellent global scale physical infrastructure, State of art technology, well trained manpower and well laid out shop floor facility.

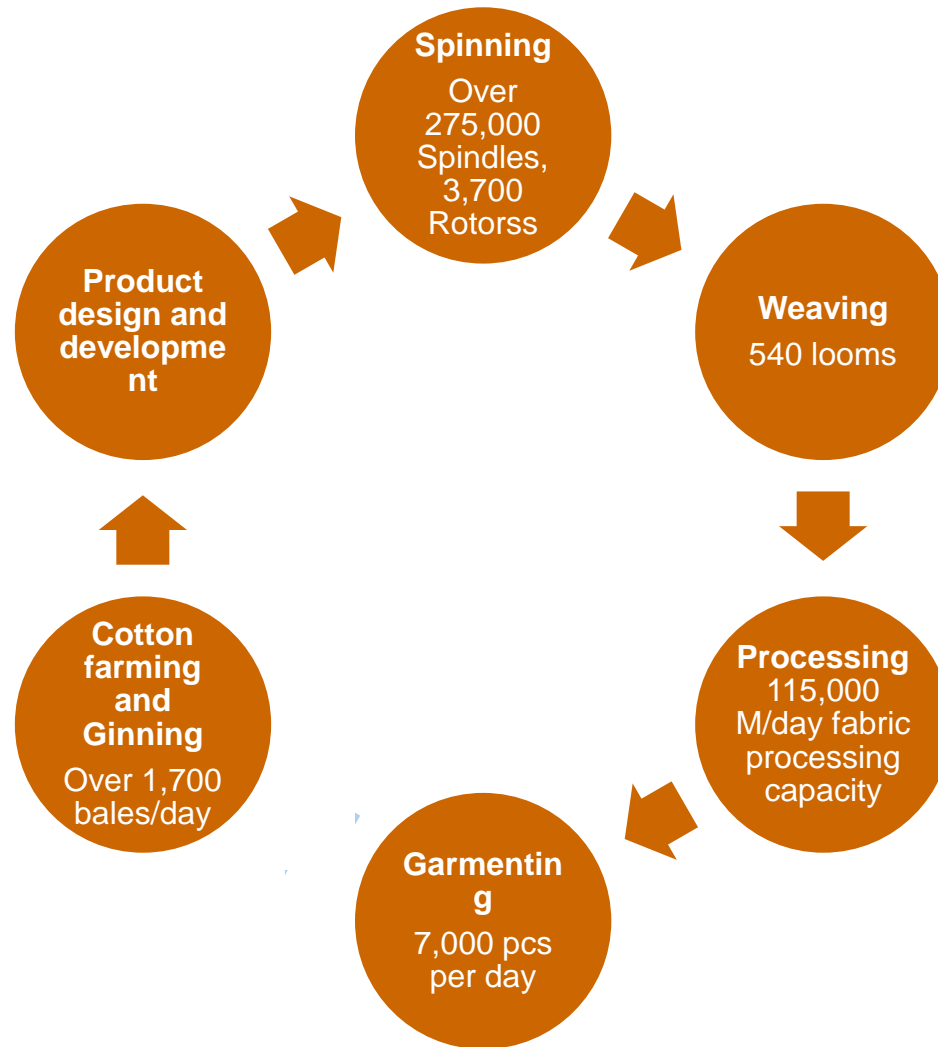
Vision

- NSL aspires to become one of the leading innovative, eco friendly and entrepreneurial companies in the “Natural Fiber to Affordable Fashion” domain

Mission

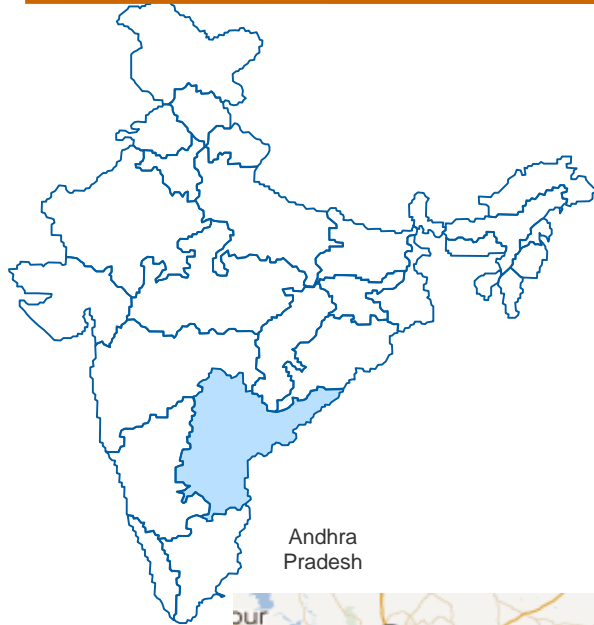
- Fabric & Garments – To be preferred and large share supplier of shirting fabrics, bottom weight fabrics and garments sourced in and from India or other strategic locations for discerning customers worldwide. To be among the top garment producers in India and to market major portion of our fabric capacity as garment packages
- Yarn – To be among the largest premium fine count cotton spinners in the world in the next five years

Fully integrated value chain covering Cotton to Garments

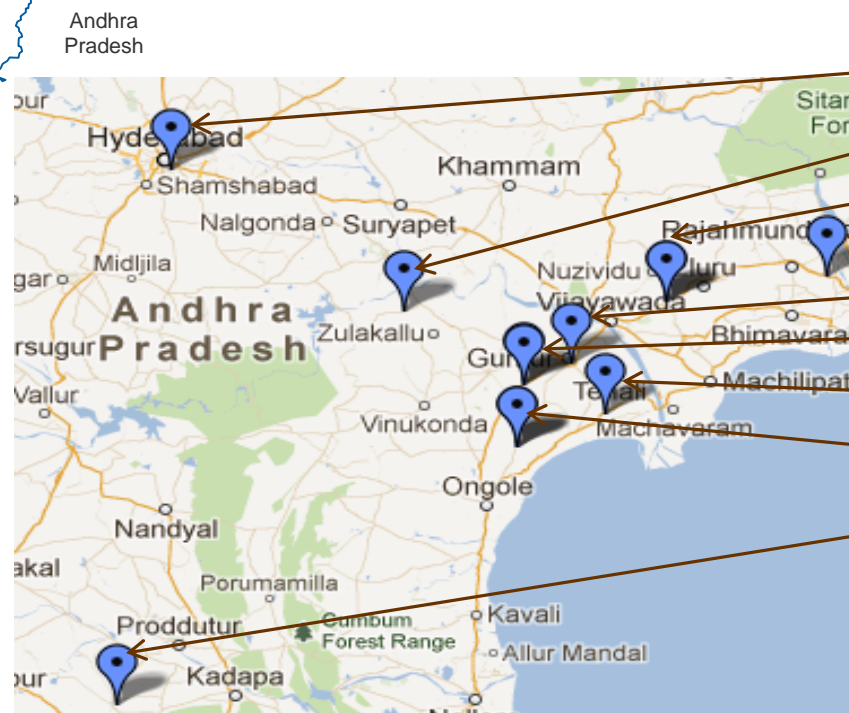


NSL is the largest integrated textile mill in South India

Multi location facilities situated in the heart of cotton growing area of Andhra Pradesh



- ➔ All manufacturing facilities are centered in the cotton-rich region of Guntur-Krishna – Kadapa - Prakasham – a region long known as the centre of education and business, and as a seed-bed of entrepreneurship
- ➔ Strategically located facilities in midst of abundant raw material, labor and power availability
- ➔ Only 5 hours away from three commercial ports of South India



S. No.	Location	Infrastructure / Processes
1	Hyderabad*	Garmenting
2	Gurajala	Ginning
3	Veeravalli	Ginning, Spinning, OE (Open End Spinning)
4	Tanuku*	Spinning
5	Guntur	Garmenting
6	Edlapadu	Ginning, Spinning, Weaving
7	Chandole	Yarn dyeing, Weaving and processing
8	Inkollu	Ginning, Spinning, Weaving
9	Pullivendula	Spinning

3. Production Process & Machinery

Ginning: All units capable of producing contamination controlled cotton bales

- ➔ All of Ginning units are covered by Central Government's scheme of Technology Mission on cotton (TMC)
- ➔ Star rated by the Textile Committee
- ➔ The production process from feeding the kapas to pressing of bales is completely automatic

<i>Location</i>	<i>Capacity</i>	<i>Peak Production</i>
Inkollu	40 Gins	350 bales/day
Edlapadu	48 Gins	450 bales/day
Veeravalli	48 Gins	450 bales/day
Gurajala	48 Gins	450 bales/day
Total	184 Gins	1,700 bales/day

The capacity can be doubled to 3,500 bales per day if required.



Spinning: State of the art setup to produce yarn with consistent quality

- ➔ Latest KTTM and LMW ring frames
- ➔ Preparatory process machines from Rieter and Trumac
- ➔ Production under controlled temperature & humidity
- ➔ Fully equipped testing lab for QA and QC

Location	Capacity	Production
Inkollu	62,160 Spindles	10,000 KG/Day Combed including Compact ; 5,000 KG/Day Carded
Edlapadu	97,008 Spindles	20,000 KG/Day Combed including Compact ; 5,000 KG/Day Carded
Veeravalli	50,400 Spindles 3,744 Rotors	10,000 KG/Day Combed Compact ; 22,000 KG/Day OE
Pullivendula	33,600 Spindles	7,500 KG/Day Combed including Compact
Tanuku*	31,600 Spindles	7,000 KG/Day Carded
Total	274,768 Spindles, 3,744 Rotors	47,500 KG/Day Combed; 17,000 Kg/Day Carded; 22,000 Kg/Day OE

*The unit was acquired by NSL and is a separate legal entity



Weaving: Significant weaving capacity capable of producing wide variety of fabrics

- ➔ Both Airjet and Rapier looms (Cam & Dobby)
- ➔ Can produce apparel as well as wider width sheeting fabric
- ➔ Top beam facility in 48 looms
- ➔ Wide width lycra possible
- ➔ Supported by online loom monitoring system



Location	Capacity	Production
Inkollu*	249 Looms (Toyota, Vamatex & Dornier make)	55,000 M/day
Edlapadu	160 wide width looms (Picanol make)	50,000 M/day or 34,000M/day of wide width sheeting
Chandole	131 Looms (Picanol and Toyota make)	28,000 M/day

*There is a space available in the existing loom shed for adding 150 looms to enhance the capacity by about 45,000 m/day. The entire back process of warping, sizing etc., is available for the additional 150 looms

Yarn Dyeing

- 18 Tons per day production capacity
- Latest Fong's & Loris Bellini Dyeing Vessels
- SSM soft winding m/c; SSM & P S Mettler rewinding machines
- Equipped with Eliar auto dye/chemical dispensing system – ensures consistency

Weaving

- 144 state of the art Airjet & Rapier looms
- 48 Rapier looms equipped with Top Beam facility
- Benninger and Prashant Gamatex make Preparatory
- Backed by Inkollu weaving unit with 240 looms

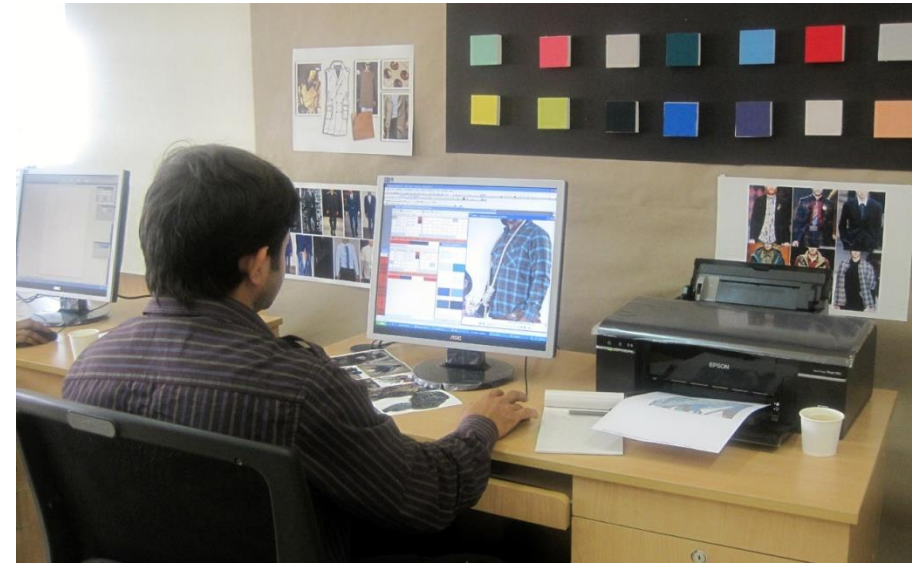
Processing

- Fabric Processing Capacity of 115,000 M/day
- Finishes like ETI, Peaching, Brushing and Aero and Coatings like PU
- Printing up to 30,000 M/day; up to 10 color printing possible
- Auto dye/chemical dispensing system for fabric dyeing – ensures consistency
- M&S Certified Laboratory
- The same processing shed can accommodate further machinery required to enhance the capacity to about 200,000 M/day

Processing Unit is Housed at Chandole

We have invested in world-class Design capabilities

- Fully equipped Design Studio with high end Design software systems like Penelope
- Group of skilled Professional Textile & Fashion designers from NIFT
- An Italian Design Consultant on board
- Our in house design team works together with buyers' design houses for making seasonal collections in shirt and bottom weight fabrics
- Seasonal collections in shirting and bottom weights are created based on Color Forecast and Fashion Trends forecasting



Dye lab machine capacity details

With the existing Capacity,

- We are having advanced machineries as mentioned below.
- We can Produce 100 Deskloom samples / Day.
- We can develop 175 – 180 Shades / Day (Bulk & Yardage)
- We can develop Lab Dips & Strike off – 30 / Day.

MACHINES DETAILS	MAKE	Nos	USAGE
AUTO DISPENCER	DATA COLOR	2	For ACCURATE Color dispensing.
SOLUTION MAKER	DATA COLOR	2	For ACCURATE Solution Making
HANGJIE DYEING MACHINE	HANGJIE	6	For Bobbin Dyeing
HANGJIE DRYER	HANGJIE	3	For Bobbin DRYEING
HANGJIE WINDER	HANGJIE	3	For Bobbin WINDING
INFRA RED DYEING MACHINE	RB ELECTRONICS	9	For Hank Dyeing
SOAPING MACHINE	RB ELECTRONICS	3	For Hank Soaping
PACKING DYEING MACHINE	FONG'S	2	For Sample Dyeing (3 KG)
SPECTRO PHOTO METER	DATA COLOR	1	Computerised Color Matching.
COLOR MATCHING CABIN	VERIVIDE & MACBETH	2 + 1	Color Matching. (Visual)
PADDER	MATI'S	2	For Sample Dyeing of Fabric
E-CONTROLE	MATI'S	1	For Sample Dyeing of Fabric



Physical lab machine capacity details

Our Lab is equipped with

- Humidifier .
- Instruments for Testing the fabrics as per AATCC , ASTM, ISO and M&S Test Methods
- Accredited by buyers like M&S, MAX Lifestyle. Madura , Uniqlo
- Certified by OEKO – TEX (Class I) & GOTS.

MACHINES DETAILS	MAKE	USAGE
DIGITAL TEAR STRENGTH TESTER	SDL ATLAS	To check the Fabric Tear strength
TITAN TENSILE STRENGTH TESTER	JAMES H HEAL	To check the Fabric Tensile strength & seam Slippage
SPRAY RATING TESTER	JAMES H HEAL	To assess the water repellency in Water Repellence finished Fabrics
MARTINDALE PILLING & ABRASION TESTER	JAMES H HEAL	For Checking the Pilling & Abrasion Resistance of fabric
GSM CUTTER	JAMES H HEAL	For Checking the GSM of fabric
CROCKING METER	PARAMOUNT	To assess the Wet & Dry Rubbing fastness.
PERSIPERO METER	JAMES H HEAL	To check the Acid & Alkali fastness
WASCATOR	JAMES H HEAL	To check the Shrinkage of the fabric
GYRO WASH	JAMES H HEAL	To check the washing fastness of the Fabric,
DP RATING BOARD	JAMES H HEAL	To assess the durable press on resin finished fabric

Product Development Sampling Unit at Chandole unit

- Sample Yardage & Blanket Capacity
 - 5 Suzuki Sample Warpers.
 - 20 looms dedicated to Sampling.
 - 3 Single end Sizing machines
 - Capacity: 30 Yardages/day
- Deskloom Capacity
 - 12 Looms with 10" width possibility
 - Capacity: 100 Deskloom samples/day
- Our sampling set up can respond fast to customers' requirement. We can offer
 - Desk loom samples – in 7 days
 - Lab dip samples – in 3 days
 - Print strike off samples – in 7 days
 - Sample yardages - in 20 days



Garmenting: State of the Art Infrastructure and Skills to serve discerning customers

- Compliant to Business Social Compliance Initiative (BSCI)
- M&S accredited
- Well trained workforce & staff
- Experience in serving customers like ZARA, Tom Tailor, M&S, NEXT, Celio, Gastra, Rusty, Gymboree, Red Tape, Turtle, Scapes etc.
- Equipped with latest JUKI & BROTHER machines
- Washing Facility available at Chandole unit
- Embroidery facility available



Location	Capacity	Production Capacity
Budampadu	550 Machines	7,000 Pcs/day

**The capacity can be enhanced to 1000 machines to produce about 14,000 pcs/day*

State of the art equipments

Area	Machine Type	Make
Spinning	Winding	SCHLAFHORST, MURATA
	Yarn Conditioning Plant	XORELLA
	Preparatory	LMW, RIETER, TRUTZSCHLER, CTMTC
	Ring Frames	KTTM, LMW, CTMTC
	Blow Room	TRUTZSCHLER, CTMTC
Weaving	Preparatory	BENNINGER, HACOBA
	Looms	PICANOL, TOYOTA, DORNIER, VAMATEX
Processing	Winding	SSM
	Yarn Dying	FONGS, LORIS BELLINI
	Singeing	OSTHOFF
	Desize Washer	KUSTER CALICO
	Continuous Bleaching	KUSTER CALICO
	Continuous Dyeing Range	MONFORTS
	Chain Mercerizer	GOLLER
	Chainless Mercerizer	KUSTER CALICO
	Printing	STORMAC, LUSCHER, ARIOLI
	Stenter	MONFORTS
	Sanforiser	MONFORTS
	Sample Warper	SUZUKI
	Garmenting	Cutting & Spreading
Sewing		JUKI, BROTHER
Finishing		NAGAISHING, ROTONDI, VEIT, RAMSON

4. Key Products



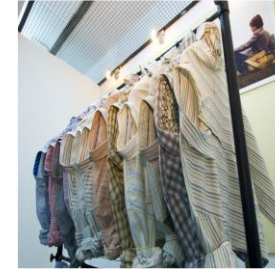
Yarn

- OE, Carded, Combed and Compact
- Eli twist Yarn
- Count Offerings
Single - 12s, 16s, 20s, 24s, 30s, 32s, 40s, 50s, 60s, 80s
Double - 2/40s, 2/50s, 2/60s, 2/80s, 2/100, 2/120
- Blended yarns – cotton – linen, cotton – modal, linen-tencel



Fabric

- All types of dobby, twills etc.,
- All designs in Yarn Dyed including Chambrays, Fila-fil
- Printed – Pigment, Reactive & Discharge
- Solid Dyed with econtrol and CPB
- PFD /Fully Bleached
- Finishes like Peaching, Brushed, Aero, ETI, Calender, Anti Microbial, Fragrance, Water Repellant, Moisture management
- Special Coatings like PU



Garment

- Men's Shirts
- Ladies' Tops
- Boys' Tops & Bottoms

5. Environment Friendly Operations

- All manufacturing units have zero effluent discharge policy
 - ▶ Fully automated and state of the art Effluent Treatment Plant at Chandole fabric processing unit
 - ▶ Uses the Biological treatment of effluent to ensure zero discharge and maximum recovery of water – up to 95% reused
 - ▶ Sewage treatments plants at all manufacturing units

- At least one-third of the factory area at each of the units is “green”
- All equipments are energy efficient; continuous monitoring and reduction of power consumption in different areas
- Continuous processing equipments are fitted with heat exchangers to save energy
- Caustic Recovery Plant at Chandole processing unit for recovering caustic soda
- Chandole Process unit operates in complete harmony with the paddy farms that surround it – a major contrast to the pollution that is so often associated with such a unit.
- Received the OEKOTEX certification declaring non-usage of banned dyes and chemicals
- Working towards achieving ISO 14001 certification

Partnering with Better Cotton Initiative (BCI)

- NSL is a member of Better Cotton Initiative
- BCI aims to promote improvements in the key environmental and social impacts of cotton cultivation worldwide to make it more economically, environmentally, and socially sustainable
- Some of the fabric orders are already being serviced using BCI cotton

6. Flexibility For Future Capacity Expansion

Flexibility at Each Manufacturing Unit For Future Capacity Expansion

Future Capacity Expansion Possibilities

Unit	Current Capacity	Available Spare Infrastructure	Possible Capacity Expansion	
			Within the Existing Infrastructure	By adding new buildings
Inkollu	40 gins; 62,160 spindles; 220 looms	Readily available loom shed with back process, power connection, humidification etc.,	150 Looms	NIL
Veeravalli	48 gins; 50,400 spindles	50 Acres Land, Power Substation	NIL	150,000 spindles
Chandole	123 looms; 115,000 m/day fabric processing	40 Acres Land, Power Substation, Industrial Building for Processing	20 Looms; 85,000 m/day of fabric processing	150,000 m/day of fabric processing and 250 looms to weave about 75,000 m/day
Budampadu	7,000 pcs/day garments	Industrial Building	An additional 7,000 pcs/day garments making 14,000 pcs/day	NIL
Edlapadu	48 gins; 97,008 spindles; 160 looms	10 Acres Land, Power Substation	NIL	NIL
Pulivendula	33,600 spindles	50 Acres Land, Power Substation	NIL	150,000 spindles
Gurjala	48 gins	NIL	NIL	NIL

Note: For the manufacturing units shown above, current capacity relevant to the process segment only in which expansion is planned is shown above

NSL Total Capacities

Activity	Ginning		Spinning		Yarn Dyeing	Weaving		Processing	Garmenting
Existing	184 gins	1,700 bales/ day	275,568 spindles	3,744 rotors	23 tons/ day	540 looms	117,000 m/ day	115,000 m/ day	7,000 pcs/ day
Post Expansion	375 gins	3,500 bales/ day	575,568 spindles	3,744 rotors	23 tons/ day	960 looms	243,000 m/ day	350,000 m/ day	14,000 pcs/ day

Annexure 1: Detailed Product Profile

Detailed Product Profile

Operation	Process	Products
Ginning	Raw cotton to Cotton lint	Lint In the bales form with a weight of approx. 170 KG/bale
Spinning	Cotton lint - greige yarn	60CW, 64CW, 40CW, 80CW, 32s KW, 40KW, 60KW, 80kw , 50CWCP, 60CWCP, 80CWCP, 40CWCP, 30sCH, 40CH, 50CH, 20s – 60s Slub, Double Yarn (TFO), 20OE, 10OE, 16OE, Blended yarns – cotton – linen , cotton –modal , linen-tencel, Bamboo, Spandex
Weaving	Greige yarn - greige fabric	Shirting, bottom weights ,sheeting, (twill, plain, drill, satin, dobbys, oxfords)
Yarn Dyed	Greige yarn - dyed yarn	Shades –White, Light, Medium & Dark. Melange
Processing	Griege fabric - finished fabric	PFD, Bleached, Piece dyed, Yarn dyed,Printed Fabric; In different finishes: Aero finish, ETI, Peaching, Brushing, Calendering, Anti Microbial, Fragrance, Water Repellant, Moisture management
Garmenting	Finished Fabric-Garments	Men's Shirts, ladies tops, shorts, Boy's tops and bottoms

Annexure 2: Manufacturing Facility Photographs

Selected Visuals of Spinning Facility



Edlapadu Unit

Inkollu Unit





Trutzschler Bale Plucker

Trutzschler Blow Room





Trutzschler TC5-3 Carding

Rieter Lap Former





ZINSER Speed Frames

KTTM Ring Frame





Schlafhorst AC5 Autoconers

Xorella Yarn Conditioning



Selected Visuals of Weaving Facility



Benninger Warping machine

Benninger Sizing machine



Weaving



High Speed Toyota Looms

Picanol Optimax Looms





Picanol wider width looms

Fabric Inspection



Selected Visuals of Chandole Process House



Bellini's Yarn Dyeing Vessels

PEASS Rewinding machine





Continuous Bleaching Range

GOLLER Mercerizer





Kuester's CPB

Monforts' Stenter



Chandole Process House



Monforts' Sanforizer

Lafers' Ultra Soft



Thank You