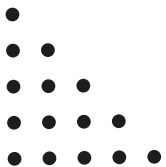
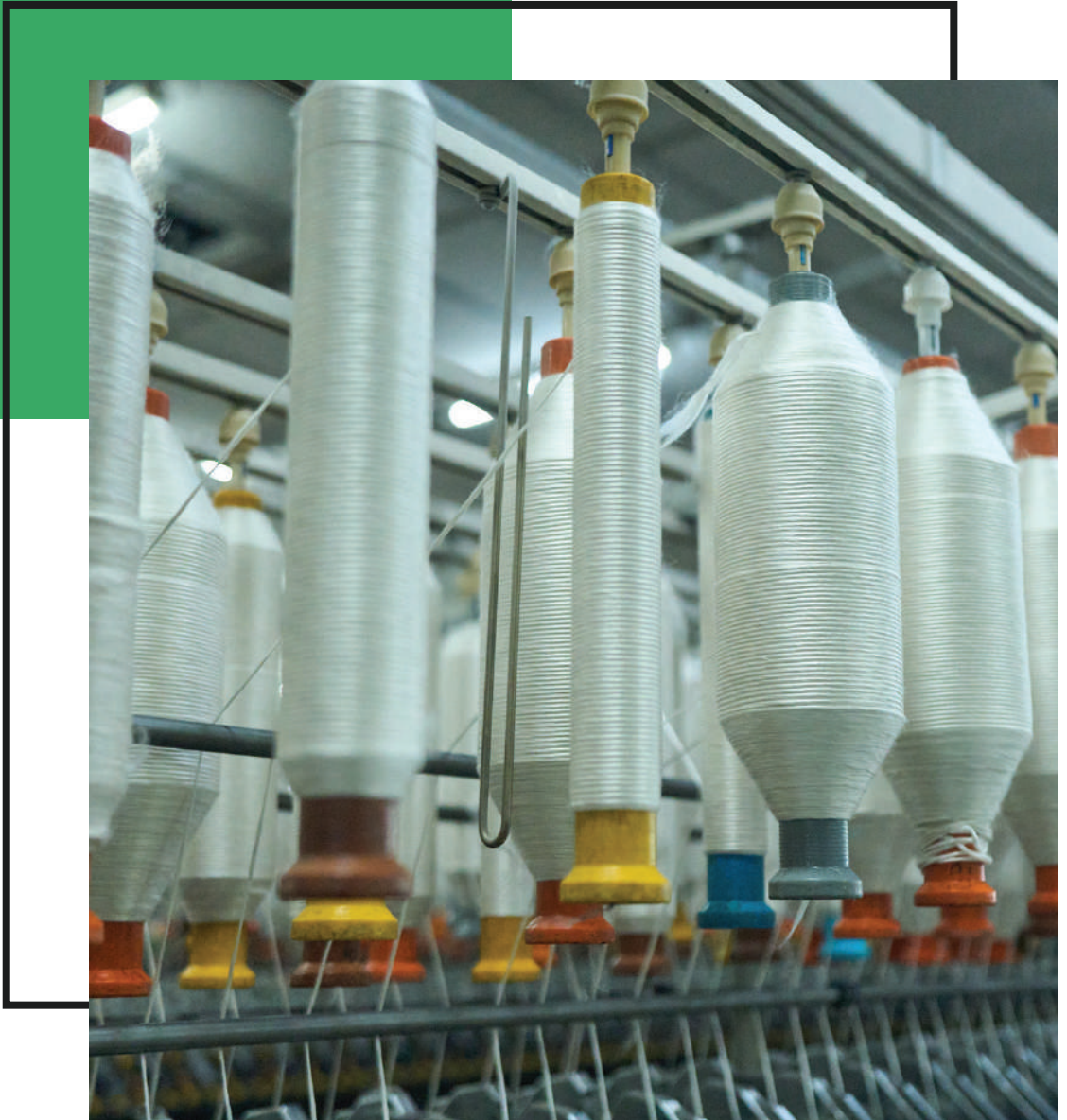
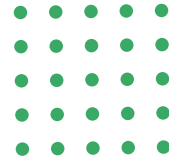


SPINNING DIVISION



CATALOGUE
2024



ABOUT RUDRA ECOVATION

Established in 1997, Rudra Ecovation (formerly Shiva Tex Fab) has been a steadfast advocate for sustainability, emerging as a leader in PET waste recycling. Situated in Ludhiana, Punjab, our expansive 100-acre facility stands as a pinnacle of integrated manufacturing in Asia for rPET waste recycling. Over our esteemed 26-year journey, we have not only succeeded in reducing global CO2 emissions by over 140,000 metric tons annually but have also spearheaded innovative environmental solutions.

Operating at the intersection of technology and eco-consciousness, our facility employs advanced material sciences to process an impressive 350 metric tons of PET waste every day. This process transforms plastic bottles into Anaura, a versatile range of soft, breathable, and eco-friendly products, seamlessly integrating sustainability into each fiber.

Our business model fosters sustainability and supports the circular economy by producing high-quality, innovative sustainable products like Anaura, as well as intricate carpets, technical textiles, filament yarn, spun yarn, fibers, and acoustic panels. The backbone of our operations lies in the precision and sophistication of our machinery, sourced from renowned manufacturers in Switzerland (Rieter), Italy (Savio), and Germany (Schlafhorst). Our initiatives consistently adhere to the gold standard of ESG (Environment, Social, & Governance) Principles.



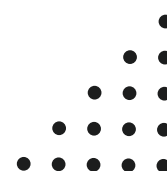


PRODUCT OFFERINGS

Rudra Ecovation plays a crucial role in clearing and recycling substantial volumes of plastic bottles daily, leading to the creation of a diverse range of aesthetically pleasing, durable, and premium-quality products.

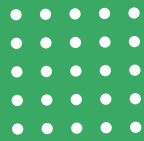
Our product portfolio encompasses various offerings, ranging from our subsidiary Anaura to carpets, knitted fabric, fibers (both grey and dope dyed), technical textiles, filament yarn, spun yarn, and beyond.

As part of our ongoing efforts, we are actively establishing facilities for bottle-to-bottle chips production and venturing into the production of acoustic panels. These endeavors highlight our unwavering dedication to innovation and sustainability, further solidifying our position as industry leaders in responsible environmental practices.





INTRODUCTION TO RUDRA ECOVATION'S SPINNING DIVISION



Rudra Ecovation operates across Punjab and Himachal Pradesh, with a primary focus on yarn production. Our extensive range of brands includes Daf-fodil, Acroshine, Daisy, Fulkari, Premium Melange, Platinum (Dyed & Melange), Hosiery Melange, CDF, Toosh, Poly Dyed, and many more.

PRODUCTS RANGE

Sr. No.	Product	Count Range	APPLICATIONS				
			single and Double	Knitting	Weaving	Greige	Dyed
REGULAR YARNS							
1	Recycle polyester 100%	Ne 1/8 to Ne 1/34	Both	yes	yes	yes	yes
2	Virgin Polyester 100%		Both	yes	yes	yes	yes
3	Polyester/Acrylic blended Yarn		Both	yes	yes	yes	yes
4	2 ply and 3 ply Yarn		Double/Triple	yes	yes	yes	yes
ACRYLIC BLENDS YARNS							
1	100% Acrylic High Bulk Yarn	Nm 15 to Nm 50	Both	yes	yes	yes	yes
2	100% Acrylic Non Bulk Yarn	Ne 8 to Ne 30	Both	yes	yes	yes	yes
3	Acrylic/Poly High Bulk Yarn	Nm 15 to Nm 50	Both	yes	yes	yes	yes
FANCY YARN							
1	Roving Grindle Yarn	2/26 Nm	Double	yes	yes		yes
2	Spectrum	1/10 NM	Single	yes			yes
3	Michelle	1/16 Nm	Single	yes			yes





BRAND NAMES

- 2/32 DAFFODIL
- 2/32 ACROSHINE
- 2/24 DAISEY
- 2/24 FULKARI
- 2/24 PREMIUM MELANGE
- 2/24 CDF
- 2/15 TOOSH
- 1/8 PLATINUM DYED
- 1/8 HOSIERY MELANGE
- 1/8 PLATINUM MELANGE
- 1/18 POLY DYED
- 1/18 MELANGE
- 1/30 MELANGE
- SPUN RECYCLE/VIRGIN (RAW WHITE)
- 2/32 ACRYLIC/POLY (PP BLACK & WHITE)
- 2/24 POLY BLACK
- 1/8 POLY BLACK



STATE-OF-THE-ART SPINNING MACHINERY

Rudra Ecovation is committed to attaining textile excellence through state-of-the-art technology. Our spinning facilities boast highly automated machinery sourced from reputable manufacturers including LMW, Reiter (Switzerland), Savio (Italy), and Schlafhorst (Germany).

Moreover, all our manufacturing facilities hold certifications including ISO 9001, GRS, and BIS (IS-17263:2022), underscoring our dedication to quality and sustainability standards.



TECHNOLOGY AND INNOVATION IN UPSTREAM PROCESSES

At Rudra Ecovation, we prioritize technology and innovation in our upstream processes to ensure the highest quality yarn production. Some key features of our facilities include:

- Utilization of the latest technology in the Blow Room line with blending accuracy of +/- 1.5%.
- Integration of advanced technology in Carding Machine (LMW) & Draw Frame (RE-ITER/Switzerland), incorporating:
 - (a) High-profile licker-in arrangement with active flats.
 - (b) Online Quality Monitoring System (QMS) for real-time quality assessment.
 - (c) Autoleveller system for precise control of sliver gram per meter (GPM).
 - (d) Servo drive for draft adjustment and high accuracy in Sliver Correction point.





FLEXIBILITY AND INNOVATION IN UPSTREAM PROCESSES:

We prioritize flexibility and innovation in our upstream processes' technology to enhance efficiency and maintain world-class product quality. Some features include:

- Utilization of interchangeable and additional carding elements for enhanced adaptability.
- Implementation of a specially coated coiler designed for processing MMF (Man-Made Fibers).
- Integration of a pressure-regulated chute for uniform feeding, ensuring lower yarn Count CV% (Coefficient of Variation).
- Incorporation of unique wire profiles for effective carding action, resulting in less yarn imperfections





ADVANCED TECHNOLOGY FOR SUPERIOR YARN QUALITY

Rudra Ecovation leverages Reiter Technology from Switzerland to ensure superior yarn regularity and cleanliness. Some key features include:

- Improved scanning precision and control dynamics to control Sliver U% and CVM.
- Gentle web condensing facilitated by a new web nozzle, contributing to long-term sliver quality improvement (A% below 0.3%).
- Enhanced yarn cleanliness achieved through consistent utilization of the Reiter Quality Monitor (RQM).





TECHNOLOGY AND INNOVATION IN DOWNSTREAM PROCESSES

Our downstream processes are equipped with advanced technical features, including:

- Speed frame with Auto Tension Controller (ATC) for precise tension control.
- Ring frames with auto doffing system and PLC System for efficient operation.
- Automatic empty tube loader for caddies at the Autoconer stage, enhancing productivity.
- Multicone digital yarn layering technology with Red light & proper anti-patterning system for uniform yarn winding.
- Upgraded splicing solutions with Duo Air Feeding system, ensuring seamless yarn splicing.
- Off Standard Bobbin Selector (O.B.S.) with extra cycle and rejection percentage for improved quality control.
- Electronically Cleared Yarn (EYC) system by USTER/Switzerland (Quantum-Q3) ensuring high-quality yarn production.



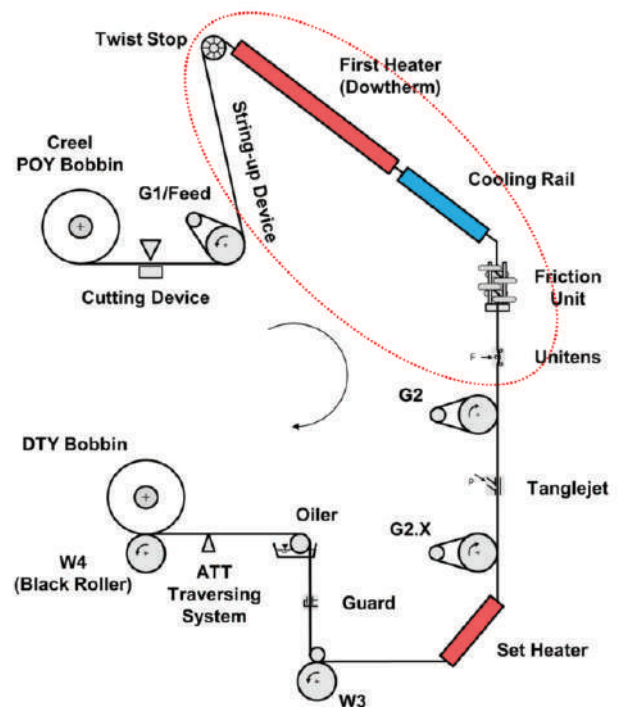


STATE-OF-THE-ART LABORATORY FACILITIES

Rudra Ecovation's dedication to quality is evident in our state-of-the-art laboratory, outfitted with cutting-edge Uster machinery. We place a strong emphasis on customer satisfaction and continuous improvement, achieved through active employee engagement and advanced testing capabilities.

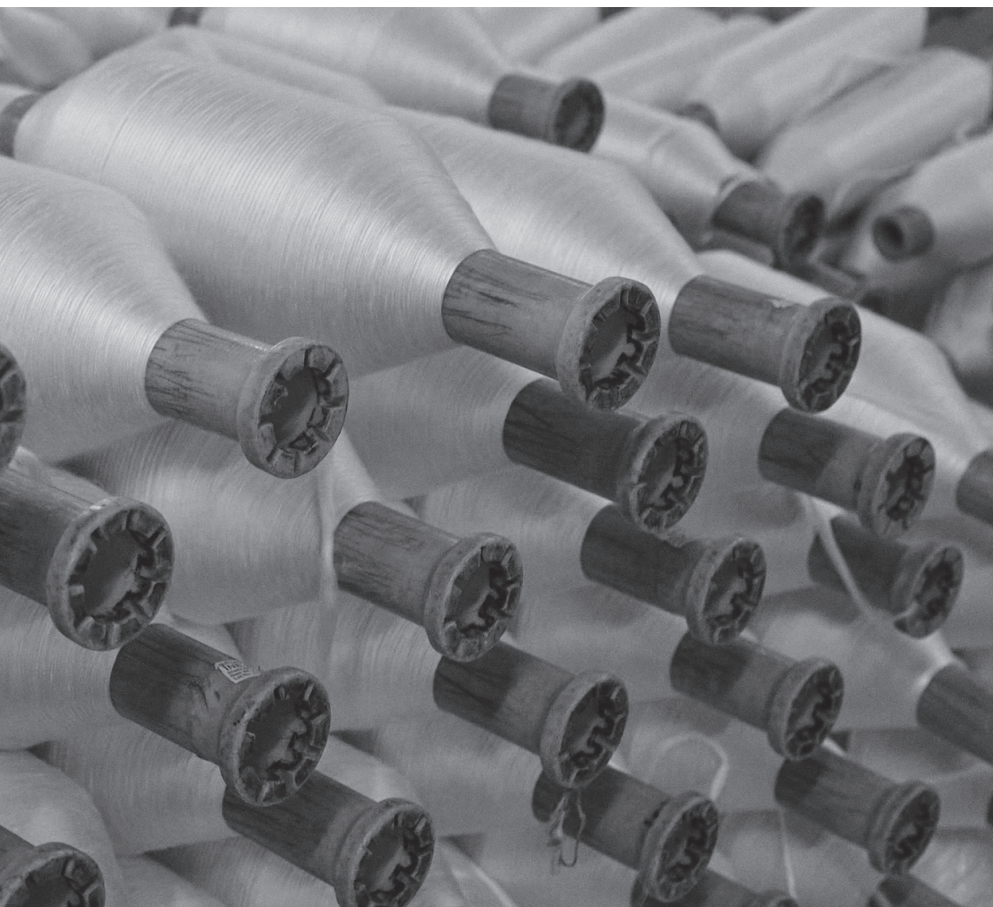
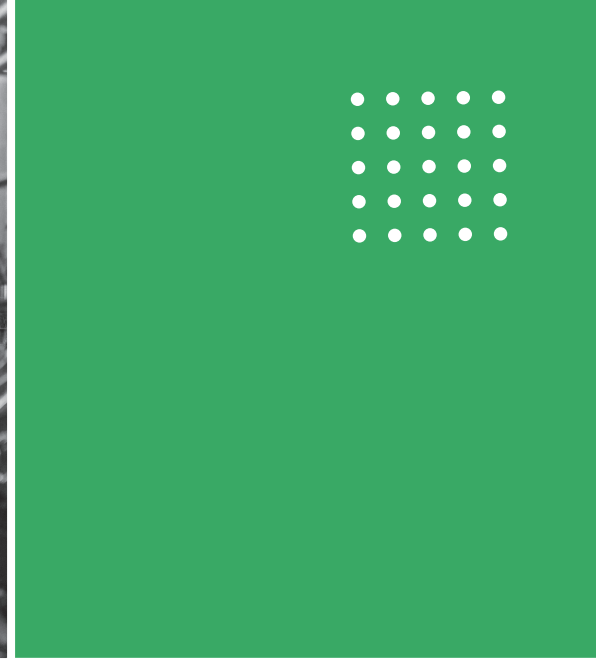
POY & DTY DIVISION

Rudra Ecovation's POY & DTY Division operates a cutting-edge facility dedicated to the production of Partially Oriented Yarn (POY), Draw Textured Yarn (DTY), colored dope dyed yarns, and other value-added products. These tailored offerings are utilized across multiple sectors, including texturizing, draw warping, weaving, and warp knitting, meeting a wide range of industry requirements.



PRODUCT		Natural/Dope Dyed	LIM/HIM/ROTTO
For POY	Denier/Filament 120/36, 140/36, 250/36,120/48, 250/48, 160/72, 250/72, 500/96, 500/144	Both	All
FOR DTY	Denier/Filament 75/36, 90/36, 150/36, 75/48, 150/48, 100/72, 150/72, 300/96, 300/144	Both	All





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