



Arvind Limited

ARVIND

Turn of the Century – Recycle water to Sustain Fashion

CASE STUDY



Summary

Sustainability is not a new term for Arvind Limited, in fact we have always used it as an expression to share our responsibility and commitment towards our earth and nature. Being Sustainability as a central focus of the company, Arvind Limited has developed and implemented numerous sustainability projects inclined towards the environmental stewardship. As an environmental conscious company, Arvind Limited has taken initiatives throughout its supply chain—from Organic Cotton Farming, adopting Newer Technologies into the processes, using Liquid Indigo to Zero Liquid Discharge and Rain Water Recharge to name a few. We have started taking the initiatives right from the very beginning. In the year 1997, when no discharge point was available for the treated effluents, Arvind has established Effluent Recycle Plant to recycle the waste water fit for process reuse, for CPP, cooling tower and also for plantation and gardening in the complex.



Objective of Intervention

We would like to highlight our water conservation initiative and open to share our way to reduce, recycle and reuse of water with other textile industries in India.

Type of Intervention and Location

Water Recycle and Re-use
Arvind Limited – Santej Unit

Description of Intervention

We have adopted and invested in the state-of-the-art green technologies in our plants. One of those is the Zero Liquid Discharge (ZLD) which has been proven fruitful in not only discharging any waste-water outside as well as it has reduced the withdrawal of the ground water in our unit. We have four stage water recycling plant. It recycles more than 94% of the waste-water which can be reused in our processes. Our MVRE technology treats the RO reject and around 60% of the condensate gets recovered. MVRE technology is a new patented technology used as desalination for the RO reject treatment with low cost of operations against conventional evaporation technology. The use of polymeric heat exchanger, a patented technology, is driven by mechanical vapour re-compressor is the heart of this technology. By using MVRE technology in combination with salt crystallization technology we can produce high purity salt which is being reused in Dyeing instead of dumping to landfill sites which is reducing the environmental impact and reuse of resources.

Intangible or Tangible Benefit

There are several benefits for the company to employ this technology of recycle and reusing of water. Few of them are: Reduces the Ground water consumption, Minimizes waste water discharge, Maximizes water recovery and Brings economic sustainability.



About Arvind Limited

Arvind Limited, established in the year 1931, is the flagship company of the Lalbhai Group is one of the largest textiles manufacturer and exporter in India. The company's principal businesses are manufacturing and marketing of denim fabric, shirting fabric, woven and knitted fabric and garments. The company has the rights to market international brands such as Lee, Wrangler, Arrow, Izod, and Tommy Hilfiger in India. The company owns popular brands such as Mainstream, Excalibur Gant, Flying Machine, New Port and Ruf & Tuf. The production units are located in Gujarat, Maharashtra, and Karnataka.