

Nanofique Limited x Shibori Limited

Treating Textile Dye Wastewater to Recycle

Key metrics

Textile Dye

Used:

PIGMENT

Wastewater
Generated:

12.7 m³/day



100%

Colour Removal



>95%

Water Reusability



72%

COD Reduction

Client testimonial

"The recycled water produced was tested by us within our machines for staining and dyeing testing. The water was excellent, and we are confident that the solution developed will be suitable for use to treat all the waste effluent from our factory."

— Paul Godfrey,
Managing Director,
Shibori Limited, Leicester, UK

Nanofique



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THE CHALLENGE



Use pigment dyes which require fixers and binders similar to PVA glue, creating coloured wastewater that is difficult to treat.

No wastewater treatment system existed, limiting the company's diversification, expansion and sustainability goals.

THE SOLUTION



Nanofique Treatment System- Bionanocatalyst reactor completely breaks down textile dyes, binders and fixers.



**Quick
degradation**
~2 hr



**>95% water
recovery**



**~95%
footprint
reduction**



**Reusable
catalyst**
~50 cycles



**ZDHC
standard**

INDUSTRIAL IMPACT



Conventional treatment systems require 8-10 sequential stages over 2-3 days, occupy substantial space, and produce large volumes of toxic sludge.

Nanofique reduces the process to 3 stages, enabling faster treatment with smaller footprint and >95% water recycling.