Title of the Technology

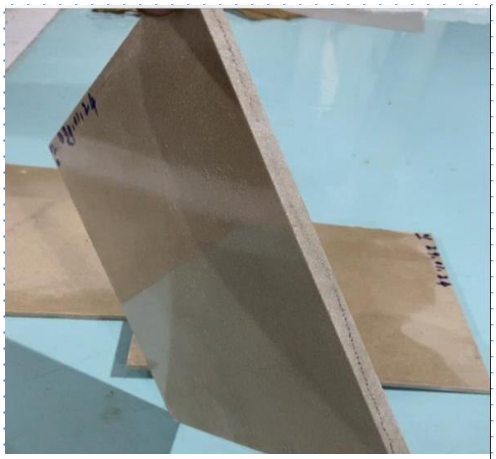
A novel Wall Cladding Panels/ Tiles developed using Zero Liquid Discharge Residue, Grasim Industries Limited, Nagda

Introduction

During viscose fibre manufacturing process, Zero Liquid Discharge Residue (ZLDR) generated from Grasim Industries Limited (GIL), Nagda, M.P. has been used as a raw materials for secondary product development. About 11 tons of ZLDR has been generated per day from GIL

CSIR-AMPRI, Bhopal explored the possibility of utilizing zero liquid discharge residue for making wall panels and successfully developed a composite cladding panels/wall tiles. Realization of this findings and further advanced research in this area is expected to results a new class of architectural panels/ wall tiles and effective utilization and safe management of ZLDR leading to create a new business.

Zero Liquid Discharge Residue generated from Grasim



Wall panel/ tile made of ZLDR at CSIR-AMPRI, Bhopal

Technical Highlights

- ✓ Flexural Strength : 10 - 35 MPa
- ✓ Flexural Modulus : 1.0 - 4.5 GPa
- ✓ Density : 1.5 -2.5 gm/cm^3
- ✓ Water Absorption : > 1%

Industry Partner

Grasim Industries Limited
Staple Fibre Division
Nagda, Madhya Pradesh

For further inquiries please contact:

Dr. Avanish Kumar Srivastava, Director,
CSIR-Advanced Materials and Processes Research Institute, Bhopal (M.P)
Website: https://ampri.res.in
Email: director@ampri.res.in
Phone: 0755-2457105

सीएसआईआर- एम्प्री
CSIR-AMPRI