

A Project Report On

“SYNTHESIS OF ZEOLITE FROM WASTE PORCELAIN”

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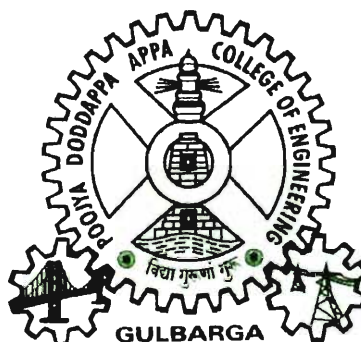
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1. Abstract

In this work waste porcelain (stoneware and washbasin) were converted into crystalline Zeolite - X using a one-step process with the alkali fusion method. The amorphous and crystalline phases in the waste were first converted into soluble phases by alkali fusion, and were then used to synthesize single zeolite crystals.

The Synthesized product was a highly valued zeolite that could be used as a molecular sieve or as an adsorbent.

Keywords: Zeolite, clays, porcelain