



“Gheorghe Asachi” Technical University of Iasi, Romania



A STUDY ON RECOVERY OF SILICA AND ALUMINA FROM FLY ASH

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Abstract

Fly ash is the major residue produced during the combustion of coal. Research has been carried out to recover silica and alumina from fly ashes collected from different thermal power plants in India. Silica and alumina from the fly ash were recovered and the recovered products were subjected to X-ray diffraction, X-ray fluorescence and Inductively Coupled Plasma-Optical Emission Spectroscopy analyses to estimate the silica and alumina content. Total recovered silica content in the samples was in the range of 65-72%. Alumina content in the recovered products was in the range of 11-79%. Based on the study, the potential for recovery of Alumina and Silica from the fly ashes is highlighted.

Key words: alumina, disposal, fly ash, recovery, silica

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