

BEHAVIOUR OF FLYASH BRICK MASONRY COLUMNS

NIKITA SHARMA & B. JENA

Assistant Professor, Department of Civil Engineering, Vikash Institute of Technology, Bargarh

ABSTRACT

In this experimental work, relate the individual brick strength to that of the masonry strength. In this study flyash bricks have been considered, considering its common use in masonry work. 15 nos. of Flyash bricks of size 230mm*110mm*75mm were tested on its face(230mm*110mm)(5 nos.), side(230mm*75mm)(5 nos.) and edge(110mm*75mm)(5 nos.) under compression in UTM(Universal Testing Machine) and strength has been calculated and correlation has been established. Then 5nos. of flyash brick masonry cubes of size 230mm*230mm*230mm were prepared and their strength compared with the individual brick. Then 3 nos. of brick masonry columns of height-1800mm and cross section (230mm*230mm) were prepared under various eccentric loads. And then the strength of the columns were predicted using the strength obtained from individual brick and brick masonry cube.

KEYWORDS: Flyash Brick Masonry Columns