

ABSTRACT

Natural sand is a vital material used for making of concrete and the requirement of sand in Self Compacting Concrete (SCC) is more compared to normal concrete. Now a day's different environmental issues have led to the scarcity of river sand. Due to scarcity of natural sands availability, it is needed to find alternate materials to replace natural sand. The sugarcane Bagasse Ash (SBA) and rice husk ash (RHA) by-product of burning of bagasse waste in the sugarcane factories.

The main focus of the study was to investigate the flexural behaviour on SCC by using SBA aggregate as partial replacement of fine aggregate by about 5%, 10% on volume basis. Fly ash had been used as admixtures in SCC as per EFNARC guidelines. In this study, Aura Mix 400 polycarboxylate ether based super plasticizers had been used to reduce water content to attain the high workability. The investigations were carried out for finding mechanical flexural strength. Finally the results were compared with SCC without partial replacement of fine aggregate