**EFFECT OF NANO SILICA ON THE COMPRESSIVE STRENGT OF CONCRETE**

**ABSTRACT**

Due to rapid industrialization and urbanization in the country lot of infrastructure developments are taking place. This process as in turn lead questions to mankind to solve the problems generated by this growth. The problems defined are acute shortage of construction materials, increase the productivity of waste and other products usually M30 concrete is used for most of the constructional works. Hence in this project M30 concrete is taken and waste plastics and waste rubber is used. The present investigation deals with Partial replacement of Waste Plastics and waste rubber as partial replacements in concrete at an increment of 5% each time. i.e; 0%, 5%, 10%, 15%, 20%.with equal replacements in fine and coarse aggregates.

Cubes and Cylinders were cast and tested at 7 and 28 days of age. The results were compared with the results of concrete specimens cast with 0% of Waste Plastics and Waste Rubber. The concrete with waste plastic and waste rubber can be used for construction of rigid pavements, sewers, tennis courts and walker areas which leads to decrease in the overall thickness of the pavement.