**ABSTRACT**

Natural fibers are used from several centuries for various functions since the beginning of civilization. They need been used for ropes, toughening of pots etc since several centuries. Natural fibers are of two varieties. Natural inorganic fibers like volcanic rock, Asbestos etc and therefore the alternative are the natural organic fibers like coconut, palm, kenaf, jute, sisal, banana, pine, sugarcane, bamboo etc. The natural fibers are investigated by completely different researchers as construction materials which will be employed in cement paste/mortar/concrete.
The present work is carried out to judge the compressive, tensile also as Flexural strength of concrete mistreatment sisal fibers as reinforcement. By mistreatment completely different fiber ratio and fiber proportion, result on compressive strength of concrete cube specimen for varied combinations is studied. The fiber diameter was first ascertained through caliper and was seen to be average 0.3mm. Fibers used with ratio 50, 75,100 and the percentage of sisal of 0.5%, 1%, 1.5% and a couple of were used for the work. Traditional M20 combine was used for the study. The experimental work was meted out for twelve completely different mixtures. The obtained specimens were subjected to tests aimed to find the compressive strength, split tensile strength, flexural strength of concrete.

Key words : Natural fiber, Sisal, Strength of concrete