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Experimental Studies on Strength Properties of Sisal Fiber Concrete

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Abstract - Concrete is relatively brittle, and its tensile strength is typically only about one tenths of its compressive strength. Regular concrete is normally reinforced with steel reinforcing bars. For many applications, it is becoming increasingly popular to reinforce the concrete with small, randomly distributed fibers. Their main purpose is to increase the energy absorption capacity and toughness of the material, but also increase tensile and flexural strength of concrete. But using steel fibers in concrete is a costly one, this can be overcome by using Natural fibers. Here in this project we had used SISAL fiber as a secondary reinforcement to increase the properties of Concrete. An attempt is made in this paper to use SISAL fibre as a secondary reinforcement to improve the mechanical properties of concrete. The major contribution of present work is to conduct experiments on strength properties of sisal fibre concrete and conventional concrete and to identify the advantages offered by sisal fibre concrete over the conventional concrete.