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CANE REINFORCED CEMENT CONCRETE: AN EXPERIMENTAL APPROACH ON FLEXURAL STRENGTH CHARACTERISTICS IN COMPARISON WITH STEEL RCC

Priyadarshi Das ⁽¹⁾ Bidyadhar Basa ⁽²⁾ Samuel Digal ⁽³⁾ Chandan Jana ⁽⁴⁾

⁽¹⁾ Assistant Professor Civil Engineering Department, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India.

⁽²⁾ Associate Professor, Department of Civil Engineering, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India.

⁽³⁾ P.G student Civil Engineering Department, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India.

⁽⁴⁾ P.G student Civil Engineering Department, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India.

Abstract

The possibilities of Cane as a support material in concrete beams were explored. The essential goal was to determine the flexural behaviour of Cane Reinforced Concrete Beams. Tensile tests were directed on Cane sticks to survey their qualities as support material. Doubly Steel and Cane Reinforced Concrete Beams of equal dimensions confirming IS codal provision were compared with Plain Concrete Beam in this exploration work. It was found that for Doubly Cane Reinforced Concrete Beam, the load carrying limit expanded by around 73.11% over that of the plain cement concrete beams while for Doubly Steel Reinforced Concrete Beam, the load carrying capacity expanded by around 20.8% over that of randomly oriented Cane Reinforced Concrete Beams.

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Beam, Cane, CRCC, Concrete, Doubly Reinforced, Flexure, Steel

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