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STRENGTHENING OF RC BEAMS IN FLEXURE USING FERROCEMENT

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ABSTRACT: Ferrocement is a thin, versatile construction material, with several unique properties and suitable for wide range of applications in Civil Engineering. The purpose of this study was to check the strength, deflection and crack pattern of ferrocement beam specimen. The prefabricated elements made of reinforced concrete are extremely heavy and difficult to transport, placing in position and to construct. Because of its good structural performance and low cost ferrocement is used in construction industry. So finding the flexural behavior of ferrocement is necessary. The results show that the flexural strength and ultimate load carrying capacity of the ferrocement beam. Strengthening of the beams by using Ferro-mesh layer is not only easy to implement at household level, but is also promising in terms of enhancing load carrying capacity, stiffness and ductility.

Keywords: Ferrocement, Ferro-mesh, Flexural Strength, Ultimate load carrying capacity

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